



Cal/EPA

Department of
Toxic Substances
Control

1011 N. Grandview Ave.
Glendale, CA 91201

Pete Wilson
Governor

Peter M. Rooney
Secretary
for Environmental
Protection

COMPLAINT INSPECTION REPORT

POWERINE OIL COMPANY

12345 Lakeland Road
Santa Fe Springs, CA 90670
Telephone Number: (562) 944-6111
EPA ID NO.: CAD008383291

Inspected by: Ahmed Hegab

Date of Inspection: January 27, 28 and
February 9, 11, 1998

Date of Report: April 2, 1998

POC'S INSPECTION REPORT
MARCH, 1998

I. PURPOSE:

The purpose was to investigate a complaint inspection for two complaints received on December 22, 1997 and January 5, 1998. Powerine Oil Company (POC), the subject of this complaint, is an inactive refinery and generator of hazardous waste. These complaints consist of the following allegations:

Allegation #1. Since 1995, POC has been storing F and K RCRA listed wastes (F037, F038) and K050) in two tanks (# 27105 and # 10006) and neither of these tanks have been emptied.

Allegation #2. The above wastes include API separator wastes, exchange waste and other listed wastes.

Allegation #3. For several years, F and K RCRA wastes (F037, F038 and K050) has been stored, accumulated and illegally stored because the coker unit was being shut down. F & K wastes used to be recycled when the coker unit was in operation.

Allegation #4. The waste handling process and tanks has been in poor condition and the soil has been contaminated near the tanks.

Allegation #5. General hazardous wastes are often stored longer than 90 days.

II. REPRESENTATIVES PRESENT:

Powerine Oil Company

June Crhistman, Environmental Engineering Manager
Ray Hui, Environmental Engineer

Department of Toxic Substances Control (DTSC):

Ahmed E. Hegab, Ph.D., Hazardous Substances Scientist (HSS)
David Stuck, Hazardous Substances Scientist
Kathleen Yokota, Industrial Hygienist

III. OWNER/OPERATOR AND MANAGEMENT:

Owner: Energy Merchant Corporation (EMC)
General Motors Building



April 2, 1998

Cal/EPA

Department of
Toxic Substances
Control

1011 N. Grandview Ave.
Glendale, CA 91201

CERTIFIED MAIL

Return Requested
P388 574 242

Pete Wilson
Governor

Peter M. Rooney
Secretary
for Environmental
Protection

Ms. June Christman,
Environmental Engineering Manager
Powerine Oil Company
12345 Lakeland Road
Santa Fe Springs, Ca. 90670

RE: COMPLAINT INSPECTION REPORT

Dear Ms. Christman:

On January 27-28, February 9 and 11, 1998, the California Environmental Protection Agency, Department of Toxic Substances Control (Department), conducted a complaint inspection of Powerine Oil Company (POC), located at 12345 Lakeland Road, Santa Fe Springs, Ca. 90670.

The enclosed report describes the findings of this inspection, including violations and any actions that should be taken by POC to correct the violations.

You are required by section 25185(c)(3) of the Health and Safety Code to submit a written response to the Department within 60 days describing the corrective actions that you have taken or propose to take to bring your facility into compliance. If you dispute the violation, you should explain your disagreement in this written response. The issuance of this letter and report do not preclude the Department from taking administrative, civil, or criminal action as a result of the violations noted in this report.

Page 2
Powerine Oil Company

If you have any questions regarding this letter, or if you wish to meet with the Department to discuss any questions or concerns you have with the inspection, the report, the violation, or the required corrective action, please call me at (818) 551-2902.

Sincerely,

Ahmed L. Hegab

Ahmed Hegab, Ph.D
Hazardous Substances Scientist
Statewide Compliance Division

Enclosures
P388 574 242
Certified Mail

(Return Receipt Requested)

POC'S INSPECTION REPORT
MARCH, 1998

767 Fifth Avenue
New York, NY 10022
Telephone Number: (212) 319-2560
Fax Number (212) 319-2587

Operator: Powerine Oil Company
12345 Lakeland Road
Santa Fe Springs, CA 90670
Telephone Number: (562) 944-6111
Fax Number: (562) 319-3587
EPA ID NO.: CAD008383291

Environmental Manager: June Christman is the responsible person for the hazardous waste management at POC.

IV. **BACKGROUND:**

According to DTSC's file. The facility has the following background information:

- 1936 Powerine started a small refinery operation.
- 1954-1967 POC added significant new equipments to the refinery and the facility was able to refine up to 7,0000 barrels per day crude oil or naphtha.
- 1968 POC added the "cat cracker" and "alkylation" units. It also expanded the crude storage capacity so the refinery could process 20,000 barrels per day.
- 1974 POC added a new crude oil process unit and increased the above process capacity to about 44,000 from 20,000 barrels per day.
- 1981 DTSC issued to POC an Interim Status Document (ISD) for the Alky Neutralization Unit (ANU).
- 1982 POC started the oil upgrading project for coke operation and storage. It also added tanks and increased the tanks storage capacity for products and wastes. This increased POC's refining process capacity to 49,500 barrels per day. The facility processed raw material(crude oil and naphtha) to produce transportation fuel such as kerosene, jet

POC'S INSPECTION REPORT
MARCH, 1998

- A fuel, unleaded gasoline, high and low sulfur diesel, fuel oil and petroleum coke. POC also produced refinery gases and hydrogen as well as non-fuel by-product such as sulfur and carbon dioxide.
- 3/84 POC declared Chapter 11 bankruptcy protection and shutdown the refinery except for some product storage and maintenance of existing equipments.
- 9/86 POC returned to operation.
- 2/92 POC requested to withdraw of converting the ANU, the ISD unit to Permit-by-Rule (PBR) as a fixed treatment unit.
- 4/92 POC notified DTSC that it would discontinue the use of ANU. ANU was consisted of two retention basin units, one at the east of the facility and another one at the west side. The retention basin units were used to neutralize acidic wastewater that was generated from the refinery's hydrofluoric alkylation plant.
- 6/95 The facility shutdown the refinery operation and laid-off more than 300 employees.
- 10/95 DTSC notified POC of the acceptance of closure certification for ANU and terminated the Interim Status Documents for the unit.
- 8/97 DTSC conducted a complaint investigation and discovered violations related to illegal storage and labeling. POC corrected the minor violation on the day of inspection.

V. **OBSERVATIONS:**

On Thursday, January 27, 1998, David Stuck, Kathleen Yokota and I arrived unannounced at POC at 1030 hours. We signed the visitor log and asked to see Ms. June Christman, the Environmental Compliance Manager. Then we met Ms. Christman and Ray Hui and explained that the reason of our visit was to conduct a complaint inspection. I also asked for their consent to conduct the inspection. Then, I

POC'S INSPECTION REPORT
MARCH, 1998

explained that we would need to review records, take photographs, and, if necessary, take samples. Ms. Christman granted her consent to us.

I asked Ms. Christman to discuss any changes that had occurred at the facility since the previous inspection on August 1997. Ms. Christman stated that no change had occurred since August of last year. She also added they still waiting for buyer or refinance for the refinery to start POC operation.

I asked Ms. Christman to provide us with the information and documents related to POC's owner and operator as well as the waste analysis for tanks and drums. Ms. Christman stated that Mr. Robert Wenon is the Chief Operating Officer and the Refinery Manager. She also provided us with the facility's owner and operator (Section III). Then she told us that Mr. Ray Hui would check POC's records and provide us with a copy of available documents. Next, Ms. Christman stated that POC do not perform any hazardous waste determination for tanks because she expected that the facility would go for operation. Ms. Christman also stated that POC did not have any tank that contains a hazardous waste but did have a hazardous material on site which is good. I then asked Ms. Christman to provide us with the information pertaining to the waste management for tanks that numbered 10006 and 27105. She said that since POC was shutdown in July 1995, we had some sludge movement of tanks bottom residue to one of the two sludge tanks (tank# 10006 and tank #27105). I also asked her for a map that could show the layout of tanks at the site which she provided (Attachment #1). She also provided us with several copies of tank usage at the site (Attachment #2). Next, I asked her to provide us with the waste management information on tanks #27105 and #10006. She told us that Ray Hui, Environmental Engineer, would need to check the file and would provide us with the available information they had on the site. I also asked Ms. Christman about POC's product bottom tanks sludge and she said that most of sludge and residue in the bottom tanks came from diesel, gas, and oil product bottom tanks. I also asked Ms. Christman about POC's current financial situation. She said that after POC was shut down on June 1995, they sold about 15 acre of land for approximately \$15 million as well as the water right for approximately \$3 million. Ms. Christman also informed us that she was expecting POC to

POC'S INSPECTION REPORT
MARCH, 1998

return to operation during 1998. Ms. Christman asked Mr. Ray Hui to make available to us all the hazardous waste manifests for through January 1998 and he did.

At the end of opening conference, we discussed the afternoon plan and agreed to return to the site at 1230 hours to start the facility walk-through.

At 1230 hours, after the lunch, we returned to POC and met with Ray Hui who escorted us during the walk-through inspection. The following observations were noted during our walk-through inspection:

A. Tanks:

1. Tank #27105

This tank (Photo #1 and #17, Attachment #3) displayed a slop oil label and sticker that showed the normal capacity of 27,500 barrel (1,155,000 or 1.155 million gallons), height (12 meters), and diameter (20 meters).

According to DTSC files, prior to June 1995, POC kept in the slop tanks all the oil and grease that were generated from oil skimmer or other process.

Mr. Hui stated that the tank contained recyclable sludge material from product bottom tanks, wastewater treatment sludge and oil and any other random spills on the site. We observed two outflow pipes (approximately three centimeters diameter) were coming from the tank reaching ground (Attachment #3). Each pipe had two manual shutoff valves one about 15 centimeters from tank side and the other at the end of it. The upper pipe outflow was located at about 2.5 meters from the top of the tank while the other outflow pipe at the middle of it. At the bottom of the tank (approximately .3 meter from ground), ten centimeters steel sludge outflow connectors was also coming out of the tank, secured with safety control shutoff valves and fittings (Attachment #3, Photos #2 & #3). Mr. Hui stated that those outflow pipes and connectors were made for sampling purposes as well as adding or removing sludge.

Mr. Ray Hui also explained to us the tank numbersystem. He said that 27105 number mean that 27 is referred to tank

POC'S INSPECTION REPORT
MARCH, 1998

capacity and 105 for tank number for that size. Mr. Ray Hui also stated that the gauge of this read approximately 23 barrel capacity (approximately 900,000 gallons).

During the opening conference and walk-through inspection, I followed a number of questions regarding the secondary containment and integrity testing. POC 's employees' statements, our visual observation and documents provided by Mr. Hui did not answer the above questions. We also observed that the surrounding area of the tank was contaminated with waste oil and other hydrocarbon constituents (Please see attachment 3, photos. 3 and 4).

2. Tank 10006

This tank was located in the west section of the facility. It displayed also the slop oil label (Attachment #3, Photo #9). The tank looked to be deteriorated rusted and parts of the outer insulation were gone. According to Ray Hui, the tank held approximately 400,000 gallons sludge. I asked Ray whether the tank was installed on a concrete bed. Mr. Ray Hui said that he did not know. Mr. Ray Hui also stated that the sludge in the tank came from the same source as in tank 27105. According to June Christman and Ray Hui Tanks #27105 and #10006 had been used for sludge consolidation after the refinery was shut down.

POC's tank usage chart (Attachment #2) shows that tank type for Tank #10006 was a cone roof, insulated with no vapor recovery and used for sludge.

We also observed that the surrounding area of the tank was contaminated with waste oil and other hydrocarbon constituents (Please see attachment 3, photos. 9, 13 and 16).

B. Storage Areas:

1. Drum Storage Area

This area is about 20 X 50 meters and located at the North west corner section of the facility and adjacent to Florence Avenue. The following observations were noted as we toured the facility drum storage area:

a. Empty drums: At the north east section of area, we

POC'S INSPECTION REPORT
MARCH, 1998

observed approximately 78 empty drums (Attachment #3 Photo #8).

- b. Twenty-four drums at south of the area displayed a non-hazardous label. Mr. Ray Hui said that the drums contained a non-hazardous cutting soil which came from the sold property.
- c. One drum contained acid batteries near the corner of south west. On February 25, 1998, the facility notified the Department that it has transported about 230 Kilograms acid batteries under a bill of lading to Inter State Battery located at 11910 Grainstone, Santa Fe Spring, California (Attachment 4).
- d. Eleven drums contained oily supporting balls and displayed a hazardous waste label. DTSC cited POC in August 1997, for storing the above hazardous waste for more than one year.
- e. Two full plastic containers were labeled with sulfuric acid and did not display a hazardous waste sign or start accumulation dates. Mr. Ray Hui stated these containers contained a sulfuric acid product which is hazardous material. However, based on the attachment 5, these two containers contained sulfuric acid sludge (D002) which was a RCRA hazardous waste and the facility was in violation with the federal and state regulations. Based on August 12, 1997, complaint inspection that was conducted by DTSC. POC promised to manifest all hazardous waste containers in the Drum Storage Area by January 20, 1998. Then the facility had requested an extension for manifesting these drums by February 20, 1998, and the DTSC agreed (Attachment #4). On February 25, 1998, Ray Hui faxed me a copy of hazardous waste manifest (Attachment #5) for one 55-gallon drum Ethylene Dichloride (D001), two 55-gallon drums of sulfuric acid sludge (D002), two 55-gallons drums API sludge (K051) and eleven 55-gallon drums of oily supporting balls (California waste 352). These hazardous wastes were manifested to Essex Waste Management, Inc. located at 1483 SW 58 Highway, Kingsville, Missouri (Attachment #5).

2. Asbestos Storage Area

POC'S INSPECTION REPORT
MARCH, 1998

During the walk-through inspection of this area, we observed three pipe connectors covered with suspected friable asbestos (Photos # 10,11 and 12, Attachment #3). I explained this problem to Mr. Ray Hui who said that he would take care of it. However, Mr. Ray Hui later responded with his above faxed laboratory report, the friable suspected Asbestos material as it turns out was a cellulose-fiber-synthetic mix and a non-hazardous waste.

3. Asphalt Area

The following observations were noted as we toured the asphalt area:

- a. Two 55-gallon drums containing waste oil and heavy oil displayed excluded recyclable material labels (Photo. #13, Attachment #3).
- b. One 15-gallon open drum similar to the above waste, was overflowing with spilled material on the ground. Another drum of the same capacity and the same label description was closed (Photo #14, Attachment #3).
- c. Three roll-off bins were located at about ten (10) meters from the west of Tank# 10006, we observed partially open and exposed to rain three roll-off bins displayed excluded recyclable material. We also did not observe any other information related to the contents or start accumulation dates. We saw also one roll-off bins, painted white, contained heavy oil on the top layer and other two roll-off bins that were painted in blue color contained sludge waste. According to Ray Hui, the sludge in the roll-off bins would be shipped as a recyclable material that can be used for road base.
- d. Spills of oil and asphalt onto the ground. We also noted that the west section corner of the asphalt area and adjacent to the fence had a spill of asphalt, oily and other hydrocarbon constituents on the ground.

Next we toured areas of the east tank farm, crude units, west tank farms and returned to June Christman office. We told Ms. Christman and Hui that we would return the next day

POC'S INSPECTION REPORT
MARCH, 1998

for sampling. We thanked them for their cooperation and left around 1600 hours.

RECORDS REVIEW:

According to June Christman, POC did not has any change in the facility's operation, records or plans and she provided me with the following records that I requested:

POC's Closure Certification.

I reviewed the document and discovered no violations Attachment #6).

Groundwater Monitoring Report (GMR).

I reviewed the GMR document (Attachment #7) and called also Keith Elliot of Regional Water Quality Control Board (RWQCB), Los Angles Branch. Mr. Elliottold me that his office has been working with POC to implement Order No. 97-118. Please read Attachment #8 for details.

Hazardous Waste Manifests.

Ray Hui provided me with manifests for 1994 through 1998. I found out that POC had one manifest for 1998 as it shipped about 1273 kilograms of polychlorinated biphenyl solid waste (Attachment 9). The facility did not have the waste code on the manifest and it is considered a minor violation.

VI. **SAMPLING:**

January 28, 1998, Sampling:

On January 28, 1998, at about 9:30 a.m., David Stuck, Kathleen Yokota and I returned to Powerine and met with June Christman. We discussed our sampling plan for tank #27105, tank #10006 and the asphalt area. During the meeting Ms. Christman told us that she would send Stan Fousha, Operating Engineer to join us during the sampling. I then thanked her for her cooperation and requested to provide us with the integrity tests for tank #27105 and tank #10006 before the end of the day. June Christman then told me she would be searching for it in their file.

POC'S INSPECTION REPORT
MARCH, 1998

At about 1000 hours, Ray, Hui directed David Stuck, Kathleen Yokota, Stan Fousha and I (sampling teams) to Tank #27105 where we started the sampling activity.

The sampling team took a total of ten pairs of samples, six of sludge, three soils and one of liquid. The samples were labeled POC-1-128 through POC-10-128. Each container of the pair was labeled "a" or "b"; those labeled "b" were given to Ray Hui of the facility, those labeled "a" were retained by DISC and taken, the same day, to the laboratory for analysis.

The sludge and liquid sampling was conducted from about 1030 hours to 1530 hours in Tank #27105 on the eastern side of the facility and Tank #10006 on the west of the site. David Stuck, Kathleen Yokota and Stan Fousha took the sludge and liquid samples from the above two tanks.

Later, about 1400 hours I (Ahmed) took three samples of the surface soil/oil sludge (POC-06-128, POC-07-128 and POC-10-128). Detail of sample descriptions, laboratory chemical analysis and results for each sample are below:

POC-1-128 a:

Sample description: one liter narrow mouth glass jars of oily liquid taken from about three meters from the top of Tank # 27105 (Photo #18). Kathleen Yokota, David Stuck and Stan Fousha collected these samples using the weighted bottle sampler. First, Stan Fousha lowered the weighted bottle sampler with one liter bottle to about three meters depth into the tank. He also yanked on the cord, popping the cork allowing the one liter bottle to fill. The bottle was then hauled up and the contents evenly spilled between 2-liter bottles. A second drop into the tank was enough to fill the 2-liter bottles to complete the samples. David and Kathleen cleaned the surface of the samples and labeled them. Second, David Stuck and Kathleen Yokota put the lids on the jars and placed a length of evidence tape over the tops of the jars and sealed them. Finally, David Stuck photographed them at the sample location, we also placed samples individually in plastic bags and put them in a cooler with blue ice.

Sample analysis:

POC'S INSPECTION REPORT
MARCH, 1998

Please see below the analytical summary and Attachment # 10 for the detail of sample chemical analysis.

Flash point

- a. Method EPA 1020 seta flash closed-cup method for Flammability.
- b. Regulatory Limit 140°F
- c. Results 122°F

Hazardous

Sample result:

Evidence obtained by the above laboratory analysis and the walk-through inspection indicated the following:

1. The upper strata of tank 27105 contained a ignitable hazardous waste (D001).
2. This result substantiates the complaint allegation that the facility illegally has been storing an hazardous waste in excess of 5000 gallons without DTSC's permit or grant of authorization. On January 28, 1998, Ray Hui, stated that tank #27105 contained 900,000 gallons waste.

POC-2-128 a:

Sample description: one liter narrow mouth glass jars of sludge taken from the depth of six meters of Tank #10006 (middle of the tank). We took this sample (Photos 21, 22, 23) by using the same method described in the previous sample.

Sample analysis:

Flash point non-detected (ND)

Sample results:

This sample did not exhibit hazardous waste characteristics of ignitability or toxicity.

POC'S INSPECTION REPORT
MARCH, 1998

POC-3-128 a:

Sample description:

500 ml wide mouth glass jars of slurry and oily sludge, taken from the bottom section of Tank #27105 at about 1240 hours. Stan Fousha, Ray Hui and I collected these samples from the wide connector (eight centimeters) that was attached connected to the bottom tank for adding or removing sludge, oily and asphalt (Photo #19)

Sample analysis:

Flash points

- a. Method EPA 1020 (as in POC-1-128A)
- b. Regulatory Limit 140F°
- c. Result 133 F° Hazardous

Sample results:

Evidence obtained by the above laboratory analysis and the walk-through inspection indicated the following:

- 1. The bottom content of tank 27105 contained an ignitable hazardous waste.
- 2. This result substantiates the complaint allegation that the facility illegally has been storing a hazardous waste in excess of 5000 gallons without DTSC's permit or grant of authorization.

PAC-4-128 a:

Sample description: 500 ml wide mouth glass jars of slurry, oily liquid or sludge taken from about two meters from the top surface of Tank #10006 (Photo #24). At about 1305 hours David Stuck and Kathleen Acadia collected these samples by the same procedure used in sample POC-1-128 and b.

Sample analysis:

Flash point

- a. Method - EPA 1020 Setaflash closed - cub method for

POC'S INSPECTION REPORT
MARCH, 1998

ignitability.

b. Regulatory Limit 140°F

c. Result 135°F **Hazardous**

Sample results:

Evidence obtained by the above laboratory analysis and the walk-through inspection indicated the following:

1. The upper strata of tank 10006 contained a flammable hazardous waste.
2. This result substantiates the complaint allegation that the facility illegally has been storing a hazardous waste in excess of 5000 gallons without DTSC's permit or grant of authorization.

POC-5-128 a:

Sample description: 500 ml wide mouth glass jars of heavy sludge, taken from the bottom of the Tank #10006 (Photo #25). At about 1400 hours, Stan Fousha collected these samples in the same manner described in samples POC-3-128 a.

Sample analysis:

Flash point

- a. Method - EPA 1020 Setaflash closed - cub method for ignitability.
- b. Regulatory Limit 140°F
- c. Result 128 °F - **Hazardous**

Sample results:

The above chemical analysis indicates that the bottom contents of tank # 10006 exhibit the hazardous waste characteristics for ignitability. It is also listed hazardous waste F037, F038 and K050 as it was generated from waste water treatments, heat exchange and tank bottom sludge or residue.

This result substantiates the complaint allegation that the facility illegally has been storing hazardous waste in

POC'S INSPECTION REPORT
MARCH, 1998

excess of 5000 gallons without DTSC's permit or grant of authorization.

POC-6-128 a:

Sample description: 500 ml wide mouth glass jars of surface soil contaminated with oily and other hydrocarbon constituents (Photo #27). At about 1300 hours, I used a clean plastic scoop to collect these samples from the south of Lake Rothchild area. David Stuck assisted me in these samples by mixing about three centimeter of the upper surface of an area of about eighty centimeters square in the center of the contaminated area. The two jars were filled by placing alternate scoops of soil, with the same plastic trowel in jars a and b.

Sample analysis:

- a. Flash point ND
- b. Metal Determination:
 - Method Extraction HML method 910
 - Analysis: EPA 6010 B
 - (STLC) Wet Analysis
 - Results: in MG/L
 - Lead 5.3 " Regulatory Limit is 5.0- Hazardous

Sample results:

This sample exhibited the hazardous waste characteristics of toxicity due to the presence of lead constituents above the Soluble Threshold Limit Concentration (STLC). The presence of lead constituents with the concentration above STLC limits suggests that an appreciable amount of leaded wastes were leaked to the ground of area south of lake Rothchild. It is also an evidence of poor of operation and maintenance that resulted in the disposal of hazardous waste to the ground of the site.

POC-7-128 a:

Sampling description: 500 ml wide mouth glass jars of brown sandy soil taken from top surface of an area at edge of the bottom of Tank #10006 (Photo #28). At 1315 hours, Ahmed and assisted by David Stuck collected these samples using a new clean plastic scoop. We removed and threw aside the top

POC'S INSPECTION REPORT
MARCH, 1998

centimeter of soil at the sampling area, mixed the next three centimeters thoroughly, and placed alternate scoops of the soil into the two sampling jars.

Sample analysis:

STLC results in mg/l:

Lead 27 Regulatory Limit is 5.0
Hazardous

Sample results:

This sample exhibited the hazardous waste characteristics of toxicity due to the presence of lead constituents above the Soluble Threshold Limit Concentration (STLC). The presence of lead constituents with the concentration more than five fold of the TLC limits suggests that an appreciable amount of leaded wastes were leaked to the ground of area under tank 10006. The laboratory results support the allegation of poor waste handling procedures for tank 10006. It is also an evidence of poor of operation and maintenance of the facility that resulted in the disposal of hazardous waste to the ground of the site.

POC-8-128 a:

Sample description: 500 ml wide mouth glass jars of black sandy soil heavily contaminated with asphalt, sludge and waste oil from top surface of an area between Tank #35 and Tank #3072 (Photo #29). At 1320 hours, David Stuck and I collected these samples using the same procedure used for the above sample.

Sample analysis and results:

This sample did not exhibit hazardous waste characteristic signitability or toxicity. However, it could be hazardous as a listed RCRA hazardous waste and will be further investigated by DTSC.

POC-9-128 a:

Sample description: one liter ml narrow mouth glass bottle of sludge taken from the depth of six meters of Tank

POC'S INSPECTION REPORT
MARCH, 1998

#27105 (Photo #30) (middle of the tank). Stan Fousha collected took this sample by using the same method described in sample POC-1-128 a and b.

Sample analysis and results:

This sample did not exhibit hazardous waste characteristics of ignitability or toxicity.

POC-10-128 a:

Sample description: 500 ml wide mouth glass jars of black sandy soil that was taken from top surface of an area adjacent to Tank #1002 (Photo #15). The sampling area was heavily contaminated with waste oil and other hydrocarbon constituents. At 1520 hours, I collected these samples and used the same procedure of the above sample. All the above samples were sealed with a lid and evidence tape, and photographed by David Stuck and then placed into the a cooler with blue ice.

Sample analysis and results:

This sample did not exhibit hazardous waste characteristics of signitabilityty or toxicity. However, it could be hazardous as a listed RCRA hazardous waste. The sampled area showed the evidence of significant spills of sludge, asphalt constituents and waste oil.

February 11, 1998, Sampling:

On February 11, 1998, David Stuck and I arrived at POC at approximately 1100 hours. We went to the office of June Christman. Then, we met with her and Ray Hui and asked for the consent to conduct sampling in the asphalt area which they granted.

Ray Hui directed David Stuck and I to the asphalt area where we collected the following samples:

POC-1-211

a: 500 ml wide mouth glass jars of heavy sludge was taken from an open 15-gallon drum which over flowed and spilled on the ground. The sampling area was

POC'S INSPECTION REPORT
MARCH, 1998

heavily contaminated with asphalt and other hydrocarbon constituents. At about 1315 hours, I collected the sample using a plastic scoop to remove the sludge from the drum and placed it into the two sampling jars. The relabeled jars were sealed with a lid and evidence tape, photographed by David Stuck at the sample location, placed individually in plastic bags and placed in a cooler with blue ice.

C-2-211

500 ml wide mouth glass bottles of surface of soil contaminated with asphalt, oily and other hydrocarbon constituents, located at the west of the asphalt area.

At about 1326 hours, Ahmed and assisted by David Stuck collected these samples using clean individually wrapped plastic scoop. Ahmed and David took these samples by mixing about four centimeters of the upper surface of about 1.4 meters square in the center of the contaminated area. Then we filled the two jars by placing alternate scoops, with the same plastic scoop of soil, in each jar. The relabeled jars were sealed with a lid and evidence tape, photographed, and placed in a cooler with blue ice as described in the above samples.

POC-3-211

- a: 500 ml wide mouth glass jars of heavy sludge was taken from the top layer of a roll-off bin in the asphalt area. At about 1415 hours, I collected these samples using a plastic scoop to remove the sludge from the drum and placed it into the two sampling jars. We also placed a length of evidence tape over the tops of the jars. These samples were sealed, photographed, placed these samples in plastic bags and in a cooler with blue ice as explained in sample POC-1-211 a and b.

At the end of the sampling activity, we gave the sample containers marked "b" to Ray Hui and thanked Ray Hui for his cooperation we then left the facility at approximately 1440 hours and took the samples marked "a" to HML in Los Angeles for analysis.

Samples marked "a" were taken to HML at Los Angeles for

POC'S INSPECTION REPORT
MARCH, 1998

semivolatile organic, volatile organic, metal scanning, pH, and other chemical analysis. HML result for the above samples is not available at this time.

VII. VIOLATIONS:

A. Class I Violations:

1. Illegal Storage:

POC violated Health and Safety Code (HSC), Section 25201(a) and 25213(b) and 66261.21, in that on or about January 27-28, 1998, POC stored in excess of 5000 gallons of hazardous waste in access of one year and failed to obtain from DTSC a hazardous waste permit or grant of authorization, to wit: POC stored in Tank #10006 and Tank #27105 (excess of 400,000 gallons) a listed hazardous waste (K050, F037 and F038) and ignitable hazardous waste (D001) without DISC's permit or grant of authorization.

Evidence: Attachment #3, photos 2, 3, 9, 17, 20 and 28.
Attachment #10 and sampling Lab results.

Witnesses: David Stuck, Kathleen Yokota and Ahmed Hegab

2. Integrity Assessment:

POC violated Title 22, California Code of Regulations (Cal. Code Regs.), Section 66262.34 and 66265.191, in that on or about January 28, 1998, POC failed to have on file a written integrity assessment reviewed by an Independent, qualified, professional engineer that attests that its hazardous waste tank system is adequately deigned and has sufficient structural strength and compatibility with the waste(s) to transferred, stored or treated to ensure that it will not collapse, rupture or fail, to wit: there is no documented report to indicate the integrity of tank #10006 and tank #27105.

Evidence: Attachment #3, photos 2, 9, 17, 20, 22, 24, 28 and 30.

Attachment #10 and sampling Lab results.

Witnesses: David Stuck, Kathleen Yokota and Ahmed Hegab

3. Illegal Disposal:

POC'S INSPECTION REPORT
MARCH, 1998

POC violated Health and Safety Code (HSC), Section 25189(a) and (c), and 66261.24 (a), in that on or about January 27-28, 1998, POC disposed of hazardous waste at an unauthorized point, to wit: disposed a toxic hazardous waste containing lead to the area located at the south of lake Rothchild as well as on the ground around tank 10006.

Samples analysis for soil collected from area around tank #10006 and south of lake Rothchild.

Evidence: Attachment #3, photos 2, 3, 7, 9, 13 and 14.
Attachment #10 and sampling Lab results.

Witnesses: David Stuck, Kathleen Yokota and Ahmed Hegab

4. Operation:

POC violated Title 22, Cal. Code Regs., Section 66262.34(a)(3), and 66265.31, in that on or about January 28, 1998, POC failed to maintain and operate the facility in a manner that minimize the possibility of fire, explosion or any unplanned sudden or non-sudden release of hazardous wastes for off-site transfer, treatment, storage or hazardous waste constituents to air or soil which could threaten human health and environment, to wit: leaks or spills of material containing toxic heavy metals from pipes, connectors or bottom of tank 10006. Also leaks and spills of toxic heavy metals at south of lake Rothchild area.

Evidence: Attachment #3, photos 13, 14 and 15.
Attachment #10 and sampling Lab results.

Witnesses: David Stuck, Kathleen Yokota and Ahmed Hegab.

5. Incomplete Labeling:

POC violated Title 22, Cal. Code Regs., Section 66262.34(a)(2) and (f)(1)(3), in that on or about January 28, 1998, POC failed to label tank #10006 and tank #27105, two, 55-gallon drums of sulfuric acid sludge, acid batteries and other containers of hazardous wastes with the date the initial waste accumulation began, or the composition and physical state of the waste.

Evidence: Attachment #3, photos 2, 3, 7, 9, 13 and 14.
Attachment #10 and sampling Lab results.

Witnesses: David Stuck, Kathleen Yokota and Ahmed Hegab

POC'S INSPECTION REPORT
MARCH, 1998

B. Class II Violations:

1. Waste Analysis:

POC violated Title 22, Cal. Code Regs., Section 66262.11, in that on or about January 28, 1998, POC failed to determine if the waste generated by the facility were hazardous, to wit: POC failed to identify or categorize RCRA hazardous waste for the wastes in tanks (#10006 and #27105) and drums (drum storage area).

Evidence: Attachment #3, photos 2, 3, 7 and 9.

Attachment #10 and sampling Lab results.

Witnesses: David Stuck, Kathleen Yokota and Ahmed Hegab

VIII. EXIT INTERVIEW WITH MANAGEMENT:

On February 9, 1998, I held an exit interview with Ms. June Christman and Ray Hui. I gave them a Summary of Violations (SOV) in Attachment #11. Then I discussed with them the violations that we had observed during the inspection and they disagreed with DTSC determination. Ms. June also stated that POC has been segregating the listed waste sludge and they did not store it in the sludge tanks. Then I asked her to provide me with any document to prove her claim but she did not. After giving them the opportunity to ask us the questions they had regarding the inspection, I thanked them for their cooperation. I left the facility at approximately 1150 hours.

Ahmed E. Hegab Ph.D

Hazardous Substances Scientist

4-2-1998

Date

POC'S INSPECTION REPORT
MARCH, 1998

IX. LIST OF ATTACHMENTS

- Attachment 1: POC's overall plot plan, site map -1 pg.
- Attachment 2: Tank usages -2 pgs.
- Attachment 3: Photographs - 16 pgs.
- Attachment 4: POC's request for 30-day extension - 1 pg.
- Attachment 5: Hazardous Waste Manifests, Bill of lading and asbestos analysis - 4 pgs.
- Attachment 6: POC's Closure Certification - 6 pgs.
- Attachment 7: Groundwater Monitoring Data - 11 pgs.
- Attachment 8: Regional Water Quality Control Board Order - 8 pgs.
- Attachment 9: Hazardous Waste Manifest for 1996-1998 -5 pgs.
- Attachment 10: Hazardous Materials Sample Analysis Request Form, spilled samples form and HML Sample Request, Chain of Custody Form and lab analysis. - 29 pgs.
- Attachment 11: Summary of Violations - 4 pgs.

ATTACHMENT 1

POC's overall plot plan, site map

16321 Gothard Ave., Suite H (714) 848-
Huntington Beach, California, 92647

ATTACHMENT 2

Tank Usages

Tank #	Type	Vapor Recovery	Service
20057	CONE ROOF	NO	TREATED WATER
20058	CONE ROOF	NO	TREATED WATER
60059	EXT. FLOAT. ROOF	NO	HEAVY NAPHTHA
40063	CONE ROOF	NO	DIESEL
40064	CONE ROOF	NO	DIESEL
40065	CONE ROOF	NO	TREATED HVGO
96066	CONE ROOF	NO	VACUUM RESID
80071	CONE ROOF	YES	GASOLINE
3072	CONE ROOF	NO	SLOP
10073	CONE ROOF	NO	STRIPPED SOUR WATER
10074	CONE ROOF	NO	STRIPPED SOUR WATER
5075	CONE ROOF	YES	GASOLINE
5081	CONE ROOF	YES	#2 PLATFORM
5082	CONE ROOF	YES	#2 PLATFORM
5083	CONE ROOF	YES	TRANSMIX
79084	CONE ROOF	NO	OLEFIN / ISO
96086	CONE ROOF	NO	CRUDE
27089	CONE ROOF	NO	UNL GASOLINE
96090	CONE ROOF	NO	SOUR WATER
20091	CONE ROOF	NO	LIGHT COKER GAS OIL
20092	CONE ROOF	NO	DIESEL
27093	CONE ROOF	NO	COKER SLOP
20094	CONE ROOF	NO	LIGHT COKER GAS OIL
10095	CONE ROOF	YES	GASOLINE
10096	CONE ROOF	YES	GASOLINE
5097	CONE ROOF	YES	SLOPS
5098	CONE ROOF	YES	ALKYLATE
5099	CONE ROOF	YES	ALKYLATE
10102	CONE ROOF	YES	UNIFINATE
27103	CONE ROOF	YES	LIGHT STRAIGHT RUN
27104	CONE ROOF	YES	JET A
27105	CONE ROOF	NO	SLUDGE
40106	CONE ROOF	NO	TOPPED CRUDE
60107	CONE ROOF	YES	HVGO / HCGO
60108	EXT. FLOAT. ROOF	NO	CAT GAS
96109	EXT. FLOAT. ROOF	NO	CRUDE SLOPS
96110	EXT. FLOAT. ROOF	NO	CRUDE
74111	CONE ROOF	NO	JET FUEL
96112	EXT. FLOAT. ROOF	NO	DIESEL
96113	EXT. FLOAT. ROOF	NO	JET FUEL
96114	EXT. FLOAT. ROOF	NO	UNL GASOLINE
96115	EXT. FLOAT. ROOF	NO	UNL GASOLINE

POWERINE OIL COMPANY TANK USAGE

Tank #	Type	Vapor Recovery	Service
30001	BULLET	N/A	PROPANE
30002	BULLET	N/A	PROPANE
30003	BULLET	N/A	PROPANE
30004	BULLET	N/A	PROPANE
30005	BULLET	N/A	OLEFIN
30006	BULLET	N/A	OLEFIN
8100	SPHERE	N/A	ISOBUTANE
6101	SPHERE	N/A	ISOBUTANE
3001	CONE ROOF	YES	OUT OF SERVICE
1002	CONE ROOF	NO	CAUSTIC
3002	CONE ROOF	YES	OUT OF SERVICE
5004	CONE ROOF	YES	GASOLINE
5005	CONE ROOF	YES	GASOLINE
5006	CONE ROOF	YES	GASOLINE
5012	CONE ROOF	NO	SLOPS
5015	CONE ROOF	NO	DIESEL
5516	FLAT FIXED	NO	DECANT
5017	CONE ROOF	NO	BOILER FEED WATER
3020	CONE ROOF	NO	BOILER FEED WATER
10004	CONE ROOF INS	NO	VACUUM RESID
10006	CONE ROOF INS	NO	SLUDGE
34008	CONE ROOF	YES	GASOLINE
43009	CONE ROOF	YES	GASOLINE
20014	CONE ROOF	NO	LIGHT VAC GAS OIL
79022	CONE ROOF	NO	STRIPPED SOUR WATER
10023	CONE ROOF	NO	OUT OF SERVICE
10024	CONE ROOF	NO	UNTREATED DIESEL
37025	CONE ROOF	NO	RAW GAS OIL
2029	CONE ROOF	NO	DECANT
2094	CONE ROOF	NO	WELL WATER
96037	INT. FLOAT. ROOF	NO	CRUDE
54039	CONE ROOF	NO	SOUR WATER
10045	CONE ROOF	NO	SOUR WATER
10046	CONE ROOF	NO	VACUUM RESID
2047	CONE ROOF	NO	WATER
10050	CONE ROOF	NO	DIESEL
10051	CONE ROOF	YES	UNIFINATE
20053	CONE ROOF	NO	LIGHT CYCLE OIL
34055	CONE ROOF	NO	TREATED WATER
5056	CONE ROOF	NO	WELL WATER

ATTACHMENT 3

Photographs

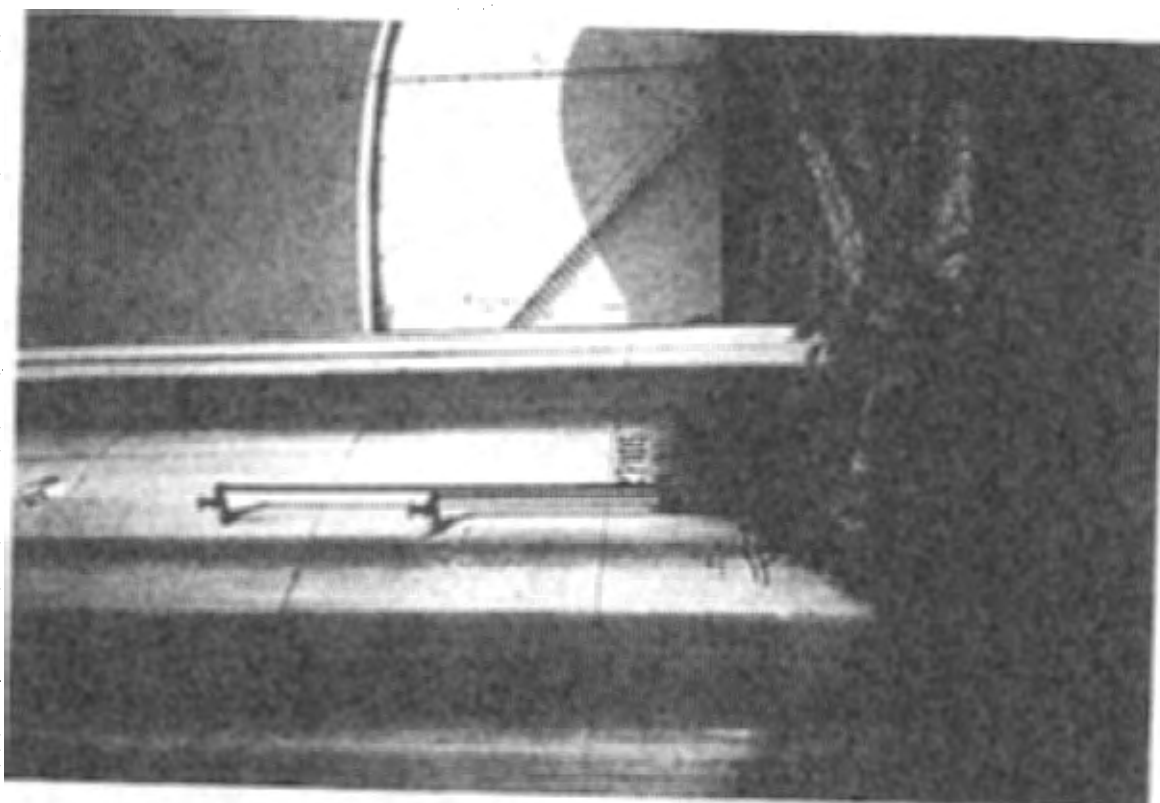


Photo #3 Date: 1-27-98 Photographer: David Stuck
Description: Tank 27105 with pipes/valves at three locations of tank height (A = bottom B = middle of tank and C = the upper third of the tank. These pipes/valves were being used for sampling purposes.



Photo #4 Date: 1-27-98 Photographer: David Stuck
Description: The lower section of tank 70, shows connectors with valve. It shows also the spills of hydrocarbon constituents and sludge on the ground.

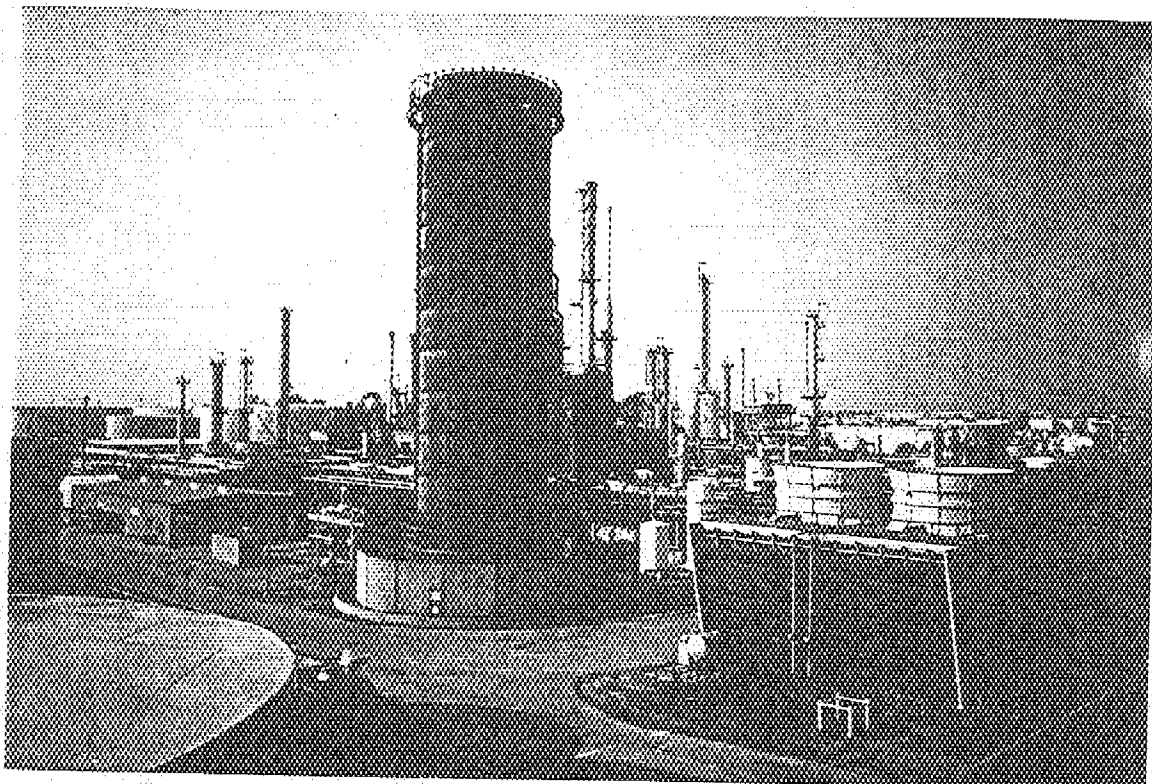


Photo #5 Date: 1-27-98 Photographer: David Stuck
Description: Overview of the cooling power at Powrine. sampling purposes.



Photo #6 Date: 1-27-98 Photographer: David Stuck
Description: Overview for Drum Storage Area.



Photo #7 Date: 1-27-98 Photographer: David Stuck
Description: Ahmed Hegab, Kathleen Yokota and Ray Hui of POC
during the inspection of Drum Storage Area.



Photo #8 Date: 1-27-98 Photographer: David Stuck
Description: Other view for Drum Storage Area showing empty large
number of empty drums.

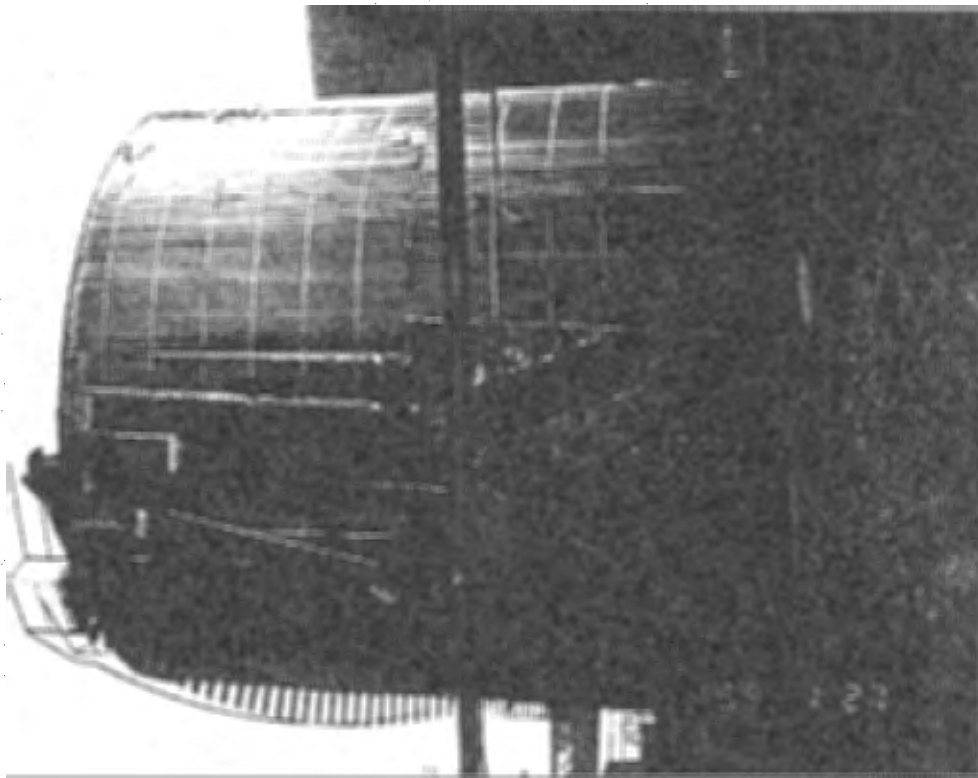


Photo #9 Date: 1-27-98 Photographer: David Stuck
Description: Tank 10006 that shows the insulation damage.



Photo #10 Date: 1-27-98 Photographer: David Stuck
Description: Asbestos Storage Area.

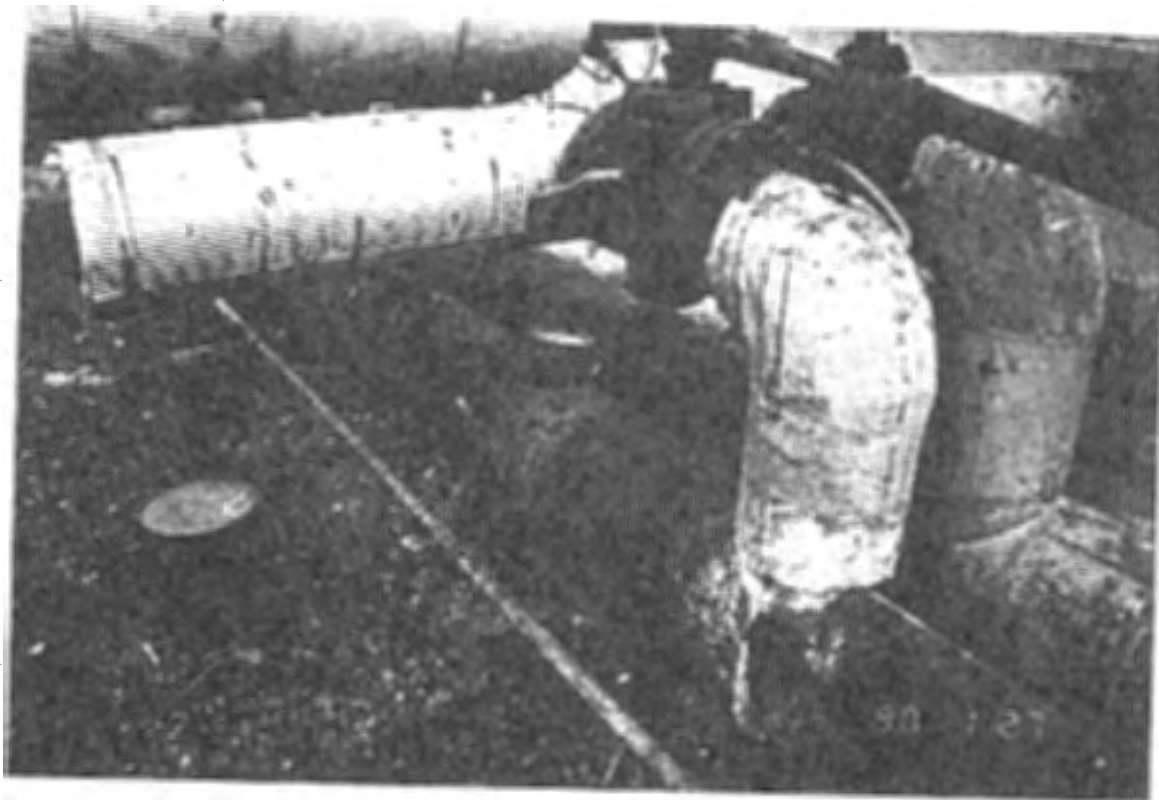


Photo #11 Date: 1-27-98 Photographer: David Stuck
Description: View for a section of the previous photo. It shows a pipe with suspected friable asbestos in poor condition.



Photo #12 Date: 1-27-98 Photographer: David Stuck
Description: Overview for Asbestos Storage Area. It shows one drum without bung and other was over packed and covered with a plastic bag.



Photo #13 Date: 1-27-98 Photographer: David Stuck
Description: Drums labeled with excluded recyclable waste Asphalt Area. Photo shows drums with oily material either without cover or overflow as well as spills of hydrocarbon waste on ground.



Photo #14 Date: 1-27-98 Photographer: David Stuck
Description: Roll-off bins full of excluded recyclable waste (sludge).



Photo #15 Date: 1-27-98 Photographer: David Stuck
 Description: View of the spills of oily waste under tank 1002.



Photo #16 Date: 1-28-98 Photographer: David Stuck
 Description: Powrine Oil Company soil samples POC-10-128 A and B collected from the ground that had spills of oil and waste around tank 1002.

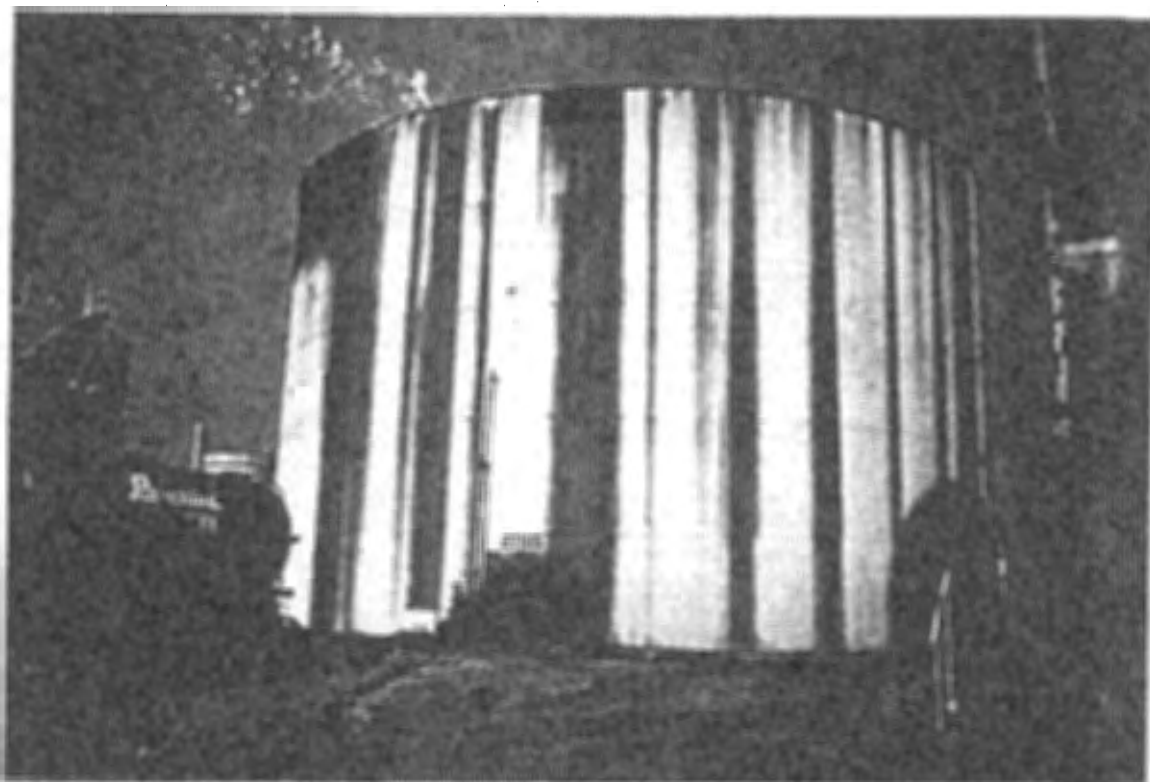


Photo #17 Date: 1-28-98 Photographer: David Stuck
Description: General view for tank 27105.

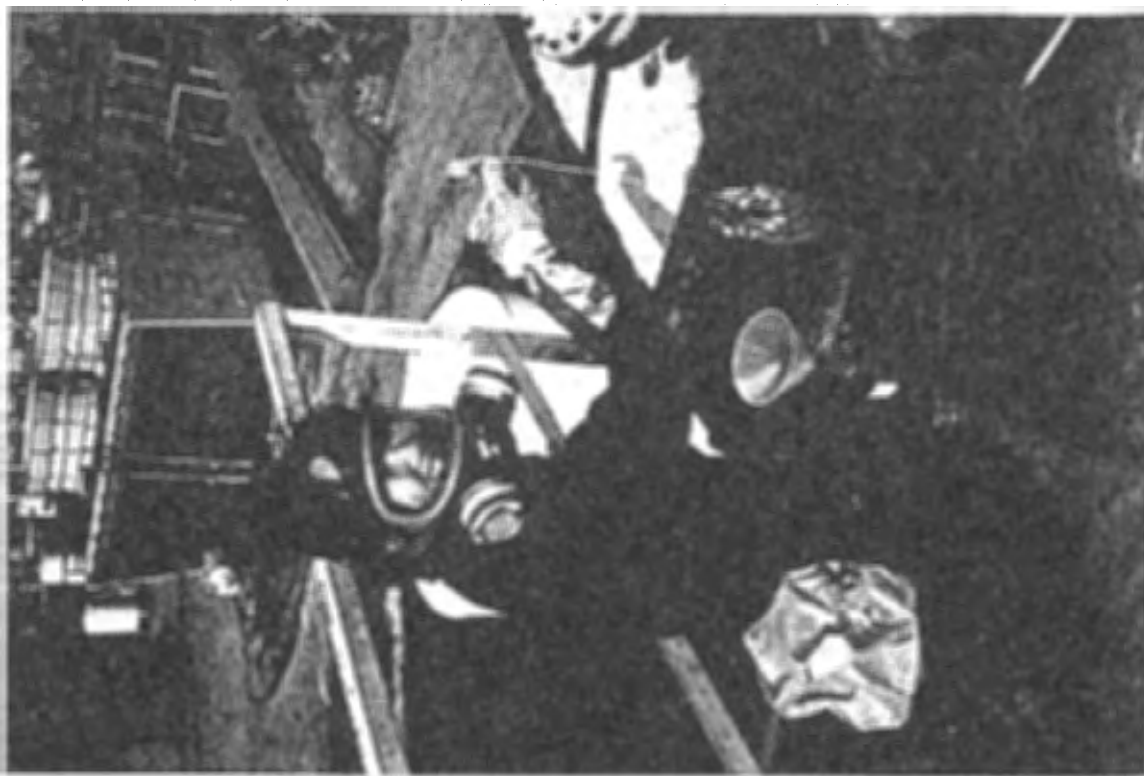


Photo #18 Date: 1-28-98 Photographer: David Stuck
Description: Kathleen Yokota taking sample number POC-1-128 A and B from tank 27105 (10 feet from the top of the tank) Facility Powerine Oil Company.

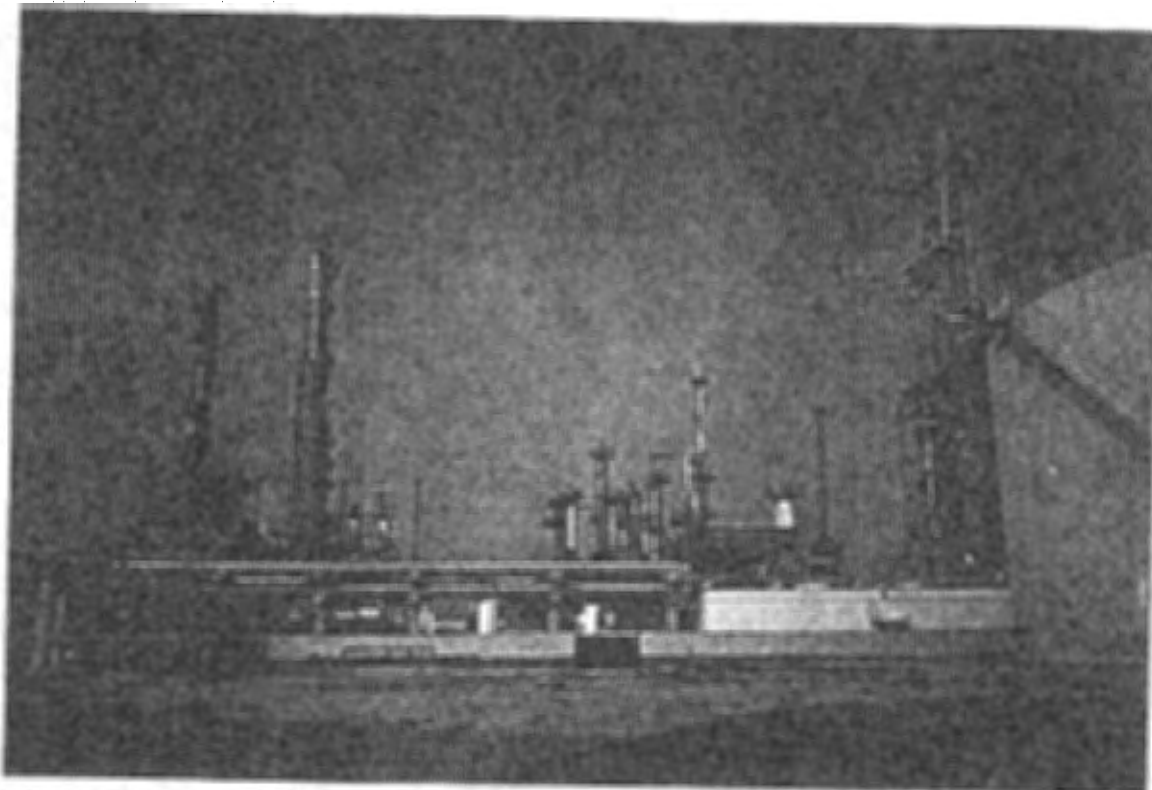


Photo #1 Date: 1-27-98 Photographer: David Stuck
Description: Overview for the section of the facility that has
Tank #27105.

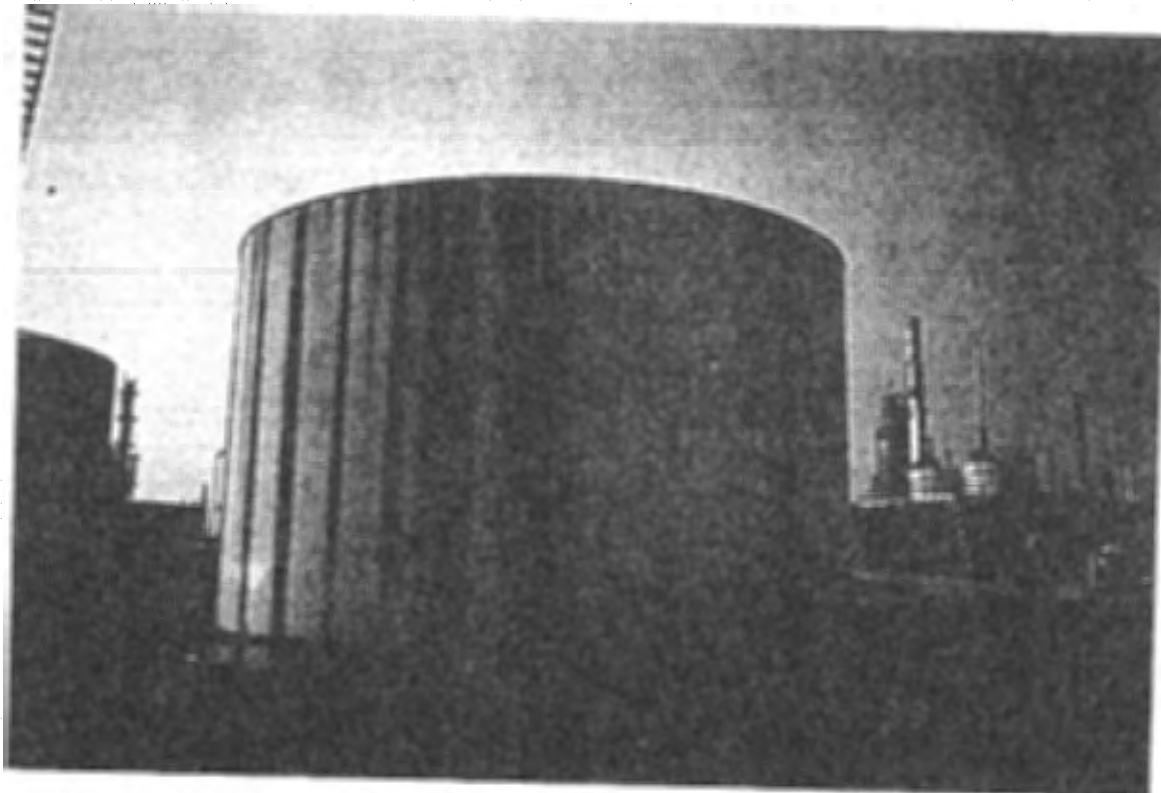


Photo #2 Date: 1-27-98 Photographer: David Stuck
Description: Tank 27105 (Normal capacity 27,500 barrel, height = 40
feet and diameter = 70 feet). The above tank did not have a label
of hazardous waste or marking or excluded hazardous waste.



Photo #19 Date: 1-28-98 Photographer: David Stuck
 Description: A view of sample number POC-3-128 A and B from the bottom of tank 2105. The samples were taken by Stan Fousha and Ray Hui.



Photo #20 Date: 1-28-98 Photographer: David Stuck
 Description: Same as above. Photo also shows the spills of sludge and hydrocarbon constituents under pipes connection.



Photo #21 Date: 1-28-98 Photographer: David Stuck
 Description: David Stuck was taking sample number POC-2-128 A and B from the middle of tank 10006 (at a distance of 20 feet from top of the tank).



Photo #22 Date: 1-28-98 Photographer: David Stuck
 Description: View of sample number POC-2-128 A and B on the top of tank 10006.



Photo #23 Date: 1-27-98 Photographer: David Stuck
 Description: View of sample number POC-2-128 A & B. This sample represent the middle of tank 10006 content.



Photo #24 Date: 1-27-98 Photographer: David Stuck
 Description: A view of sample number POC-4-128 A and B from the top of tank 10006. This tank is approximately 40 feet height and contains more than 5000 barrels of sludge.



Photo #25 Date: 1-27-98 Photographer: David Stuck
 Description: View of sample number POC-5-128 A & B taken by Ahmed Hegab of DTSC from the bottom of tank 10006. This tank was over 2/3 full of sludge waste from bottom tanks and spills as well as waste water treatment.

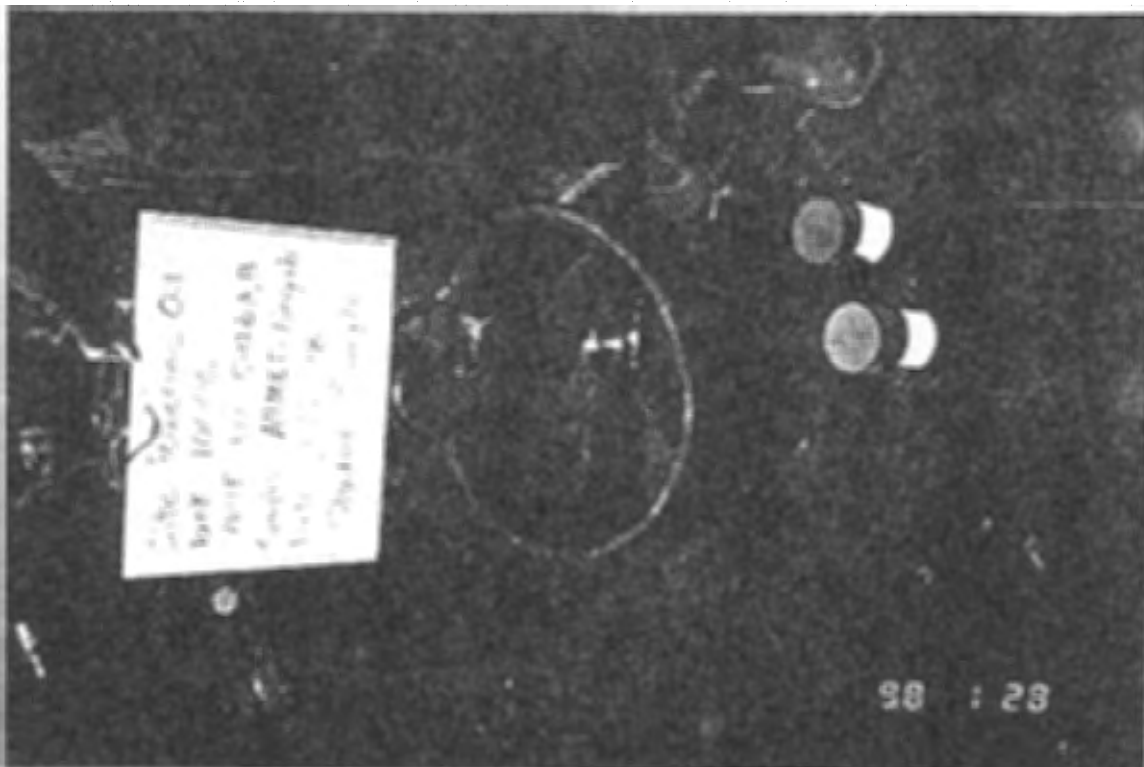


Photo #26 Date: 1-27-98 Photographer: David Stuck
 Description: General view for the above samples. It shows also the spills of sludge and oily material on the ground and around the tank.



Photo #27 Date: 1-28-98 Photographer: David Stuck
 Description: View of sample number POC-6-128 A & B taken by Ahmed Hegab in the Asphalt Area. Samples location shows the spills of oil and waste on the ground around lake Rotchilds. The type of sample was soil mixed with oily waste or sludge.



Photo #28 Date: 1-28-98 Photographer: David Stuck
 Description: A view of soil samples number POC-7-128 A and B taken by Ahmed Hegab from one area around the tank 10006.



Photo #29 Date: 1-28-98 Photographer: David Stuck
 Description: View of sample number POC-8-128 A & B taken by Ahmed Hegab. These samples were taken from the area contaminated with hydrocarbon constituents that was between tank 35 and tank 3072.



Photo #30 Date: 1-28-98 Photographer: David Stuck
 Description: A view of sludge sample number POC-9-128 A and B taken by Stan Fousha (POC-employee) from the middle of tank 27105.

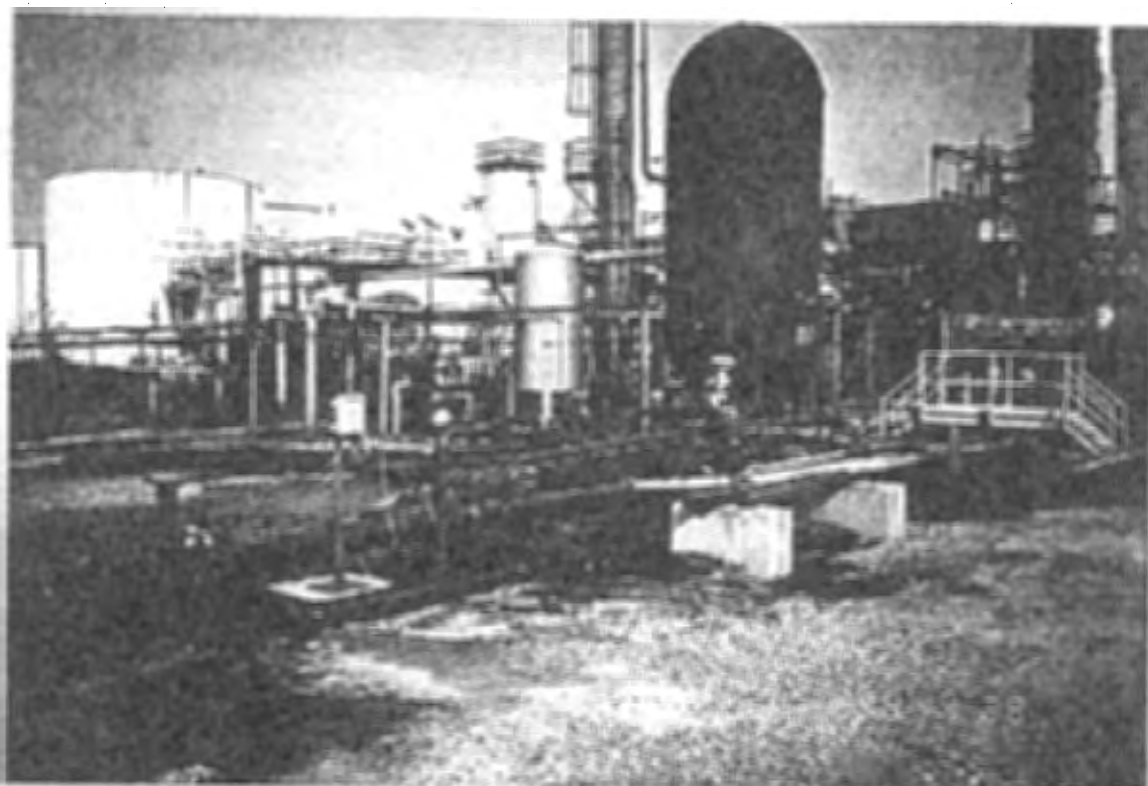


Photo #31 Date: 1-27-98 Photographer: David Stuck
Description: General view for the area that sample number POC-8-128 A and B (Bottom tank 35 and tank 3072).



Photo #32 Date: 1-27-98 Photographer: David Stuck
Description: General view of west section of Powerline.



Photo #35 Date: 2-11-98 Photographer: David Stuck
 Description: View of sample number POC-2-211 A & B taken by Ahmed Hegab. These samples were taken from the area contaminated with hydrocarbon constituents that was between from the asphalt area adjacent to the fence.

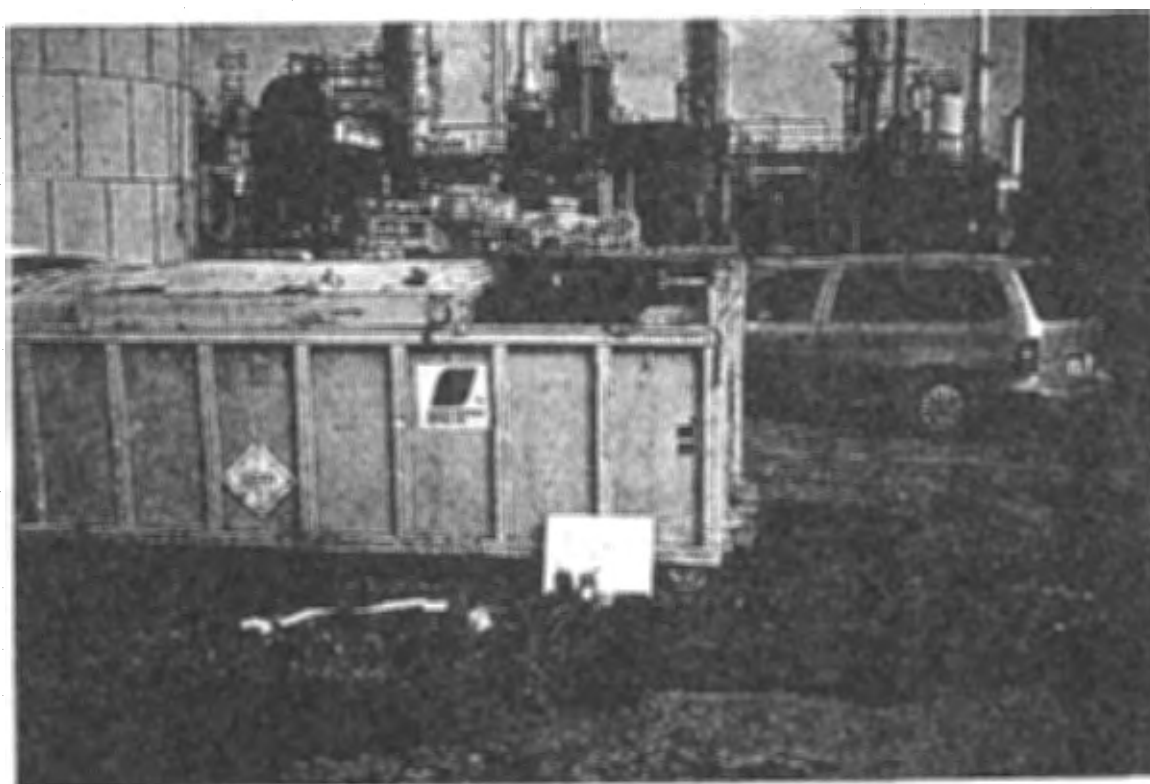


Photo #36 Date: 2 -11 - 98 Photographer: David Stuck
 Description: A view of Roll- off bin.

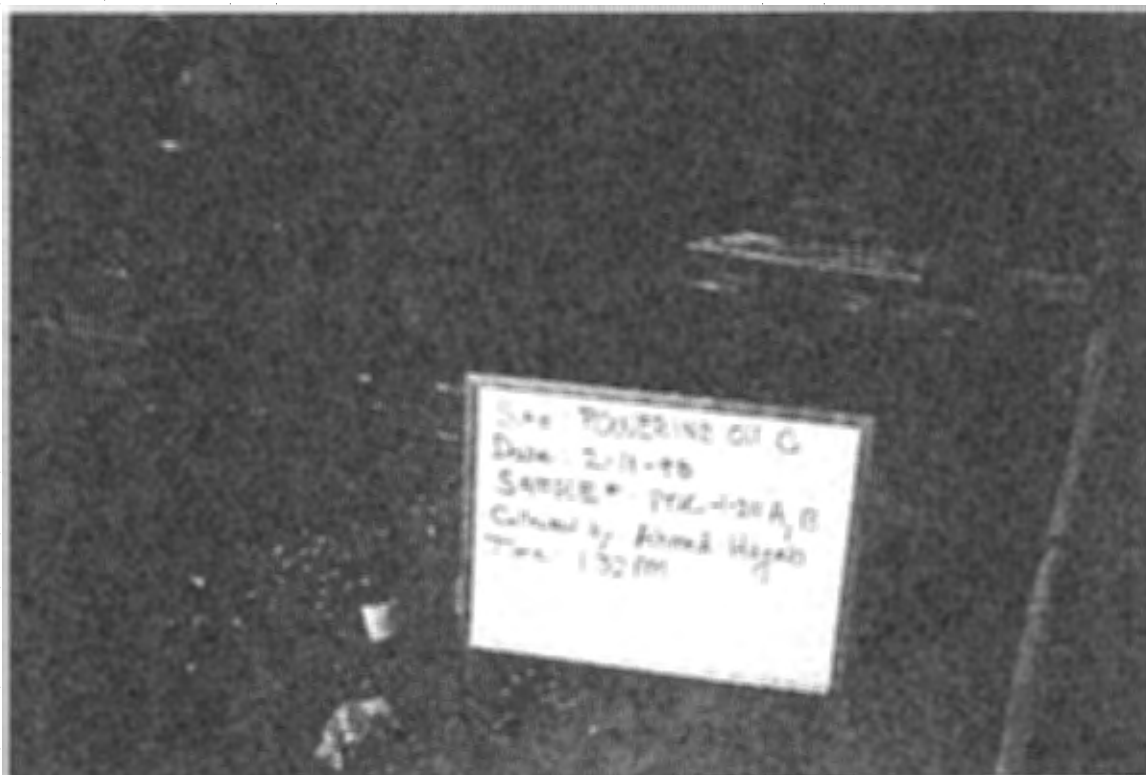


Photo #33 Date: 2-11-98 Photographer: David Stuck
 Description: View of sample number POC-1-211 A & B taken by Ahmed Hegab from an open drum in the Asphalt Area. Samples location shows the spills of oil and waste on the ground around lake Rotchilds. The type of sample was waste oil sample.

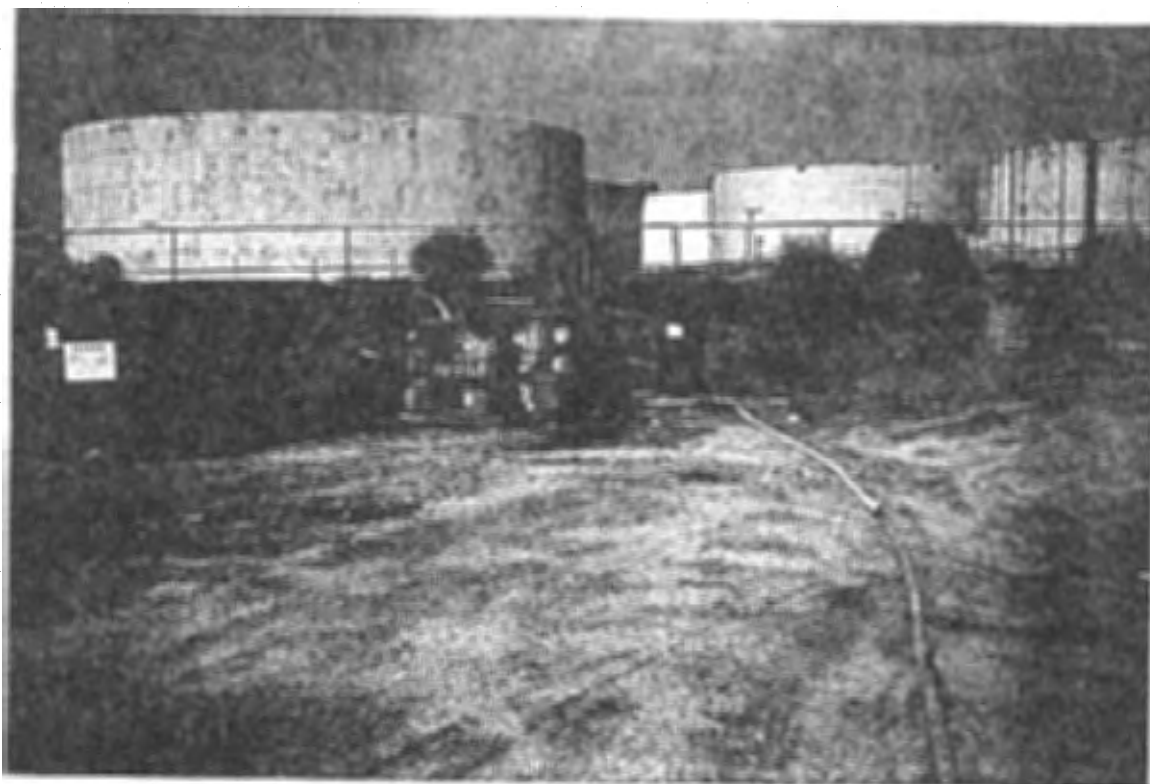


Photo #34 Date: 2-11 -98 Photographer: David Stuck
 Description: A view of the sampled area for the above sample.

ATTACHMENT 4

POC's Request for 30-day Extension

JAN 22 1998

Powerine Oil Company

January 20, 1998

Ahmend E. Hegub, Ph.D.
Cal/EPA
Dept. of Toxic Substance Control
1011 N. Grandview Avenue
Glendale, CA 91201

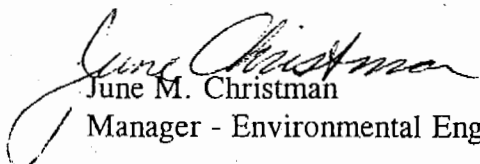
Dear Dr. Hegub:

Powerine requests an additional 30-day extension to respond to your Complaint Inspection Report received by Powerine on October 23, 1997. As discussed with you in our prior correspondence, Powerine is waiting for the Department's official laboratory analyses prior to disposing of the wastes discussed in your report. Powerine is prepared to correct the violations as soon as we have the information required for disposal.

Powerine has requested and received several quotes for disposal of the hazardous waste drums noted in your report. In fact, the light ballasts potentially containing PCB that you noticed during your inspection were shipped off site for proper disposal yesterday. Once Powerine has received the Department's official analytical results for the other wastes, Powerine will need a few days in order to select the vendor and initiate the disposal process. In order not to rush the process and to ensure that all wastes are properly handled, Powerine requests an additional 30-day extension for waste disposal. This extension request is based on the assumption that Powerine will receive the Department's official laboratory analyses in January or early February.

In summary, Powerine requests a 30-day extension until February 20, 1998 to respond to your Complaint and Inspection Report. Please feel free to contact me or Ray Huie of my staff if you have questions.

Sincerely,


June M. Christman
Manager - Environmental Engineering

JMC:md

cc: Ray Huie
File 41005.07
Reader File
(ray\dtscwext.doc)

ATTACHMENT 5

Hazardous Waste Manifests, Bill of Lading and Asbestos Analysis

Powerline Oil Company

FAX TRANSMITTAL COVER SHEET

DATE: 2/25/98

TO: Ahmed Hegab

FAX: 818/551-2841

FROM: Ray Hume

Number of pages including cover page: 4

Ahmed,

Enclosed are the haz waste
manifest, batteries bill of lading
and the lab report for asbestos.

If there're questions, please
call me.

Thanks

Ray

The information contained in this facsimile message is confidential information and is intended only for the use of the individual or entity named above. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution or copy of this communication is strictly prohibited. If you have received this communication in error, please immediately notify us by telephone and return the original message to us at the address below via the US Postal Service.

12345 Lakeland Road - PO Box 2108 - Santa Fe Springs, CA 90670 - Tel: (562) 944-6111 - Fax: (562) 903-8911

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL QUALITY

Hazardous Waste Program

P.O. Box 176 Jefferson City, Missouri 65102
573-751-3176THIS DOCUMENT MUST BE USED FOR ALL MISSOURI-DESTINED SHIPMENTS.
INSTRUCTIONS FOR THE COMPLETION OF THIS FORM ARE ON A SEPARATE SHEET.

EMERGENCY RESPONSE	U.S. COAST GUARD 1-800-424-8002	CHEM TREC 1-800-424-9300	DEPT. OF NATURAL RESOURCES 573-834-2436
-----------------------	------------------------------------	-----------------------------	---

Form Approved OMB No 2050-0039, Expires 9-30-99

se print or type (Form designed for use on 12-pitch typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAAD010181318121911		2. Page <u>1</u> of <u>1</u> Information in the shaded areas is required by State law.	
3. Generator's Name and Mailing Address POWERLINE OIL COMPANY 12345 Lakeland Road Santa Fe Springs, CA 90670				A. Missouri Manifest Document Number [REDACTED]	
4. Generator's Phone: 562, 944-6111				B. G.S.I. (Gen. Site Address)	
5. Transporter 1 Company Name Hazardous Waste Transportation Services, Inc.				C. MO. Trans. ID	
6. US EPA ID Number CAAD1918114141611516				D. Transporter's Phone (562) 906-0588	
7. Transporter 2 Company Name Rust & Sons				E. MO Trans. ID H2026	
8. US EPA ID Number CAAD1918116131411116				F. Transporter's Phone (800) 444-6193	
9. Designated Facility Name and Site Address Essex Waste Management, Inc. 1483 SW 58 Highway Kingsville, MO 64061				G. State Facility's ID 004037RR0257	
10. US EPA ID Number MO0191810191612181419				H. Facility's Phone (816) 732-5561	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers	
				Number Type	
a. Waste Ethylene Dichloride, 3, UN1184, PGII				001 DIM 00055 G	
b. RO, Waste Corrosive Liquid, n.o.s., (Sulfuric Acid) 8, UN1760, PGIII				003 DIF 00165 G	
c. Hazardous Waste Liquid, n.o.s., 9, NA3082, PGIII				002 DIM 00115 G	
d. NON-RCRA Hazardous Waste Solid (Support Balls) (California Regulated Only)				011 DIM 03900 P	
13. EPA WASTE CODE D 0 0 1 STATE 2 1 1					
14. EPA WASTE CODE D 0 0 2 STATE 4 9 1					
15. EPA WASTE CODE K 5 1 STATE 4 9 1					
16. EPA WASTE CODE N O N E STATE 3 5 2					
17. Additional Descriptions for Materials Listed Above				K. HANDLING CODE (IF FACILITY USE ONLY)	
				INTERIM FINAL COMMENTS	
a. 9800469: Waste Ethylene Dichloride					
b. 9800468: Sulfuric Acid Sludge					
c. 9800467: API Sludge					
d. 9800470: Ceramic Support Balls					
18. Special Handling Instructions and Additional Information USE PROPER SAFETY EQUIPMENT DOT Emergency Guidebook a) 129 b) 154 c) 171 d) None BILL TO: HTS Emergency Response Contact (562) 944-6111 or (562) 906-0588					
19. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and applicable state regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated in the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method available to me that I can afford.					
Printed/Typed Name Robert A. Wilson				Signature [Signature]	
Month Day Year 02/19/98					
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name STEVE BACHMAN				Signature [Signature]	
Month Day Year 02/19/98					
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature	
Month Day Year					
19. Discrepancy Indication Space					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Signature Month Day Year					

Carrier

Agent's No.

RECEIVE, subject to the classifications and tariffs in effect on the date of the issue of this Shipping Order.

at SANTA FE SPRINGS 19 POWERINE

It is hereby acknowledged that the undersigned, in consideration of the sum of money paid to the carrier, has received from the carrier a bill of lading for the goods described herein, which bill of lading is subject to the conditions and exceptions set forth in the back of this bill of lading, and the undersigned hereby agrees to hold the carrier harmless from all claims, damages, losses, and expenses, including reasonable attorney's fees, which may be incurred by the carrier in connection with the transportation of the goods herein described, and the undersigned hereby agrees to hold the carrier harmless from all claims, damages, losses, and expenses, including reasonable attorney's fees, which may be incurred by the carrier in connection with the transportation of the goods herein described.

Consigned to HRS 11910 GREEFALSTONE (Mail or street address of consignee. For purposes of notification only.)
(INVESTOR BATTER)

Destination SANTA FE SPRINGS State of _____ Zip Code _____ County of _____

Routing _____ Delivering _____ Vehicle _____
 Carrier _____ or Car Initial _____ No. _____

Collect On Delivery

\$ _____ and remit to: _____

C. O. D. charge
to be paid byShipper ☐
Consignee ☐

No. Package	Street	City	State
7	HM		
	Description of Articles, Special Marks, and Exceptions		Weight (Sub. to Car.)
	BATTERIES, WET, ACID		300
	8, UN2794 III		P
			Check Column

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without receipt on the part of the consignee, the consignor shall sign the following statements:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received \$ _____ to apply to prepayment of the charges on the property described herein.

Agent or Carrier

Per _____
 (the signature here acknowledges only the amount prepaid.)

Charges Advanced:

\$ _____

If the shipment moves between two parties by carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." If the bill of lading is to be used for the purpose of determining the value of the property, the carrier and shipper are required to state specifically in writing the actual weight of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

1000

Shipper, Per

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

Permanent post office address of shipper, 12345 LARSEN RD, SANTA FE SPRINGS

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)



LABORATORY REPORT

Report No.: 981802
Purchase Order: CASH
External No.:

RAY HUIE
POWERLINE OIL COMPANY
12354 LAKELAND ROAD
SANTA FE SPRINGS CA 90670

Date Received: 10-FEB-98
Date Completed: 12-FEB-98
Date Sent: 17-FEB-98
Page 1 of 1

Analytical Method: EPA 600/R-93-116

RESULTS TABLE

Sample Count (3) / Separable Layers (3)

Sample No.	Description	Sample Homogeneity	Asbestos Fibers	Nonasbestos Fibers
#1 (137449)	BEIGE INSULATION	COMPOSITE	BELOW LIMIT OF DETECTION	CELLULOSE : 10 %
#2 (137450)	BEIGE INSULATION	COMPOSITE	BELOW LIMIT OF DETECTION	FIBROUS GLASS : 5 % SYNTHETIC : 5 %
#3 (137451)	BEIGE INSULATION	COMPOSITE	BELOW LIMIT OF DETECTION	CELLULOSE : 20 %

Remarks : Sample(s) and sampling data as provided
by RAY HUIE

Analyst : JMB / LAN

Reviewed by:

Donald R. Bissing
Asbestos PLM Supervisor, Donald R. Bissing, PhD

AIHA ELLAP Accreditation No.: 10985
AIHA Accreditation No.: 172
California ELAP No.: 1406
NVLAP Accreditation No.: 101384

Technical Approval:

Susan Rosenberg
Laboratory Director, Susan B. Rosenberg, CIH

10771 Noel St., Los Alamitos, CA 90720 714/220-3922 FAX 714/220-2081 e-mail hsa@earthlink.net

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without written authorization is prohibited.

Attachment 6.

POC's Closure Certification

DEC 18 1997

Powerine Oil Company

December 17, 1997

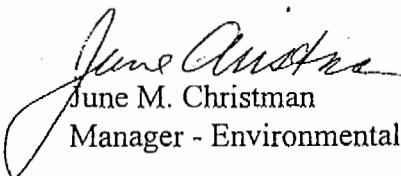
Mr. Mukul Agarwal
Cal/EPA
DTSC Region 3
1011 N. Grandview Avenue
Glendale, CA 91201

Dear Mr. Agarwal:

Enclosed is a copy of the Closure Certification issued on October 2, 1995 for Powerine Oil Company's Alky Neutralization Unit Basins. The soil beneath the basins was analyzed and found to be non-hazardous. The basins were capped on June 19, 1995.

Please feel free to contact with any questions you may have.

Sincerely,



June M. Christman

Manager - Environmental Engineering

JMC:md

cc: Ahmed Hegub
Ray Huie
File
Reader File

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

SECTION 1
111 CROYDON WAY, SUITE 3
SACRAMENTO, CA 95827-2106
(916) 255-3602



October 2, 1995

RECEIVED

OCT 04 1995

Ms. June M. Christman
Manager-Environmental Engineering
Powerine Oil Company
12354 Lakeland Road
Santa Fe Springs, California 90670-3857

ACCEPTANCE OF CLOSURE CERTIFICATION FOR THE ALKY NEUTRALIZATION
UNIT BASINS, POWERINE FACILITY, SANTA FE SPRINGS, CALIFORNIA, LOS
ANGELES COUNTY, E.P.A. I.D. NO. CAD008383291

Dear Ms. Christman:

The Department of Toxic Substances Control (DTSC) has received both your certification as Manager of Environmental Engineering and an independent engineer's certification that the Alky Neutralization Unit (ANU) East and West basins at the Powerine facility located at 12354 Lakeland Road, Santa Fe Springs, California have been clean closed in accordance with the revised closure plan submitted to DTSC in January 1994. A summary of actions taken to close the ANU accompanies this letter in Attachment A. This letter is to acknowledge that DTSC considers the Alky Neutralization Unit East and West basins at the Powerine Facility officially closed and interim status originally granted to Powerine Oil officially terminated.

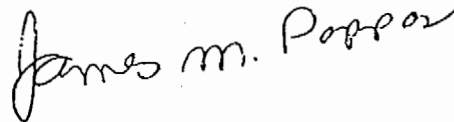
This acceptance is based on the assumption that the information submitted in the certifications as well as any information used as a basis for this decision is true and accurate. Any inaccuracies found in this information may be grounds for nullification of this clean closure certification and potential enforcement action. The Owner/Operator must inform DTSC of any deviation from or changes in the information provided which would affect the clean closure certification. This acknowledgement shall not relieve Powerine Oil of any liabilities associated with the past hazardous waste management practices which occurred on the site. This closure certification acknowledgement does not limit or preclude any future investigations of any other on-site operations by any agency, nor in resulting corrective action deemed necessary for closure and remediation of any solid waste management units at the facility.

Ms. June Christman

October 2, 1995
Page 2

Any questions about this acceptance can be directed to
Mr. Dan Aguirre, Project Manager, at (916) 255-3602.

Sincerely,

A handwritten signature in cursive script that reads "James M. Pappas".

James M. Pappas, P. E.
Chief
Facility Permitting Branch

Enclosure

ATTACHMENT A
SUMMARY OF CLOSURE ACTIONS

Interim Status was granted to the Powerine Oil Company in April 6, 1981, for the Alky Neutralization Unit. Powerine Oil Company notified the DTSC that use of the ANU was discontinued in early June 1992, the non-hazardous contents of the ANU basins had been removed and disposed at a Class II disposal facility, and an In-Line-Neutralization (ILN) system had been installed. The new ILN system will prevent the generation of hazardous waste.

The ANU basins were used to neutralize acidiregeneration bottoms produced as an undesirable by-product of the refinery's hydrofluoric alkylation plant. The combined dimensions of the East and West ANU basins were approximately 23 feet long, 22 feet wide and 10 feet deep. During the operation of the ANU basins, a minimum freeboard of three feet was maintained, yielding a design capacity of approximately 26,460 gallons or 630 barrels. Ancillary equipment included steel lids, valves and pipes to form an acid/water/polymer/lime slurry. The alkylation plant facility has a dedicated operator 24 hours a day, 365 days a year. The slurry was contained within 10 inch thick concrete walls and bottoms. These ANU basins have been replaced with an above-ground storage tank that is manifolded to an ILN system. The wastes stored in the ANU East and West basins closely resembled California Waste Code 791, liquids with $\text{pH} < 2$. Calcium Fluoride (CaF_2) was immediately formed in the ANU basins from the reaction between the inflowing acidic stream and the hydrated lime in the ANU basins. The calcium fluoride slurry stored in the ANU basins was in a liquid state with a specific gravity between 1.1 and 1.2. The maximum volume of CaF_2 slurry stored at any given time was approximately 630 barrels.

The objective of sampling during the closure was to determine whether a hazardous waste release had occurred as a result of operating the ANU East and West basins. Both soil samples and wipe samples were taken. AeroVironment drilled soil borings from the West ANU basin on September 2, 1994, and from the East ANU basin on September 6, 1994. Weathered areas were located in the 10 inch thick concrete bottom of the basins, during field observations. The weathered areas exposed the underlying reinforcement bars and were approximately two and a half feet in diameter. A concrete coring machine was used to cut a four-inch diameter hole through the center of each weathered area for access to the underlying soil. Soil borings to a total depth of 10 feet underneath the concrete floor of the ANU basins were taken using a hand auger. The concrete floor of the basins was measured to be nine feet below the ground surface. Soil samples were taken at one, five, and 10 feet beneath the bottom of each basin.

The soil encountered during the sampling was logged and described according to the Unified Soil Classification System. The soil samples were screened for volatile organic compounds (VOCs) using an organic vapor analyzer flame ionization detector (OVA-FID). The soil samples were analyzed for free fluoride using United States Environmental Protection Agency (U.S. EPA) Method 340.2 and U.S. EPA Method 9045 for pH. The analytical results for fluoride ranged from 1.4 milligrams per kilogram (mg/kg) to 25 mg/kg. These concentrations are within the range of naturally occurring fluoride concentrations in soil in the western United States. The analytical results for pH ranged from 7.5 to 9.5. The pH values are not considered corrosive, according to Title 22 of the California Code of Regulations (Cal. Code of Regs.). The soil borings were backfilled with bentonite chips and capped with concrete flush with the concrete flooring.

The steel basin lids were decontaminated by flushing them with a basic solution of soda ash and water. Two lids covered the East basin and two lids covered the West basin. There were two wipe samples collected from each of the four lids for a total of eight wipe samples. Each wipe sample was analyzed for total fluoride using U.S. EPA Method 340.2 and U.S. EPA Method 9045 for pH. The analytical results show total fluoride concentrations between 0.011 mg/kg and 1.2 mg/kg. The results of pH sampling were between 8.9 and 9.6. Based on the analytical results the lids are non-hazardous.

The quality control and the quality assurance procedures use at the Powerine ANU were exhaustive. All soil sampling equipment and hand augering equipment was decontaminated with a solution of Alconox and tap water, rinsed with tap water, and rinsed a second time with distilled water before sampling began and between soil samples. Wipe samples were collected from the barrel tubes that were used to collect soil samples. These wipe samples were collected to document any interference's that may have occurred during the field soil sampling activities and to check the field equipment decontamination procedures. One duplicate soil sample was collected from each soil boring at one foot below the ANU basin concrete bottoms. These four samples were analyzed using U.S. EPA Method 340.2 and 9045. In addition, a matrix spike and matrix spike duplicate analysis were performed on these duplicate samples. Also Golden West/CAS Laboratories ran reference standards and method blanks for U.S. EPA Method 340.2 and 9045.

Because the ANU basins were clean closed there will be no need for a post-closure permit. Powerine currently monitors fifteen groundwater wells at the refinery or in the vicinity of the refinery.

On June 14, 1995, Powerine personnel filled the ANU East and West Basins with slurry. On June 19, 1995, Powerine personnel capped the slurry-filled basins with concrete until the basins were flush with the surrounding concrete pad. Confirmation sampling has confirmed that contaminants associated with a chemical release are not present in the soil beneath the ANU basins, and that pH levels in the soil are above level 2 and below level 12.5, therefore the soil is not considered hazardous or corrosive.

ATTACHMENT 6

POC's Closure Certification

ATTACHMENT 7

Groundwater Monitoring Data

SEMIANNUAL GROUNDWATER MONITORING REPORT
POWERINE OIL COMPANY
SANTA FE SPRINGS, CALIFORNIA
(July 1996 - December 1996)

February 26, 1997

Submitted to:

Powerine Oil Company
12354 Lakeland Road
Santa Fe Springs, California, 90670

Submitted by:

TriHydro Corporation
920 Sheridan Street
Laramie, WY 82070



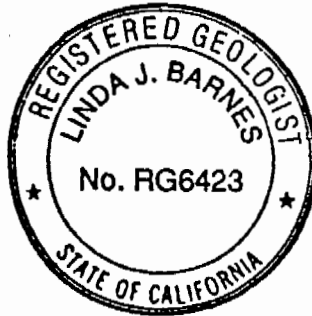
TriHydro Corporation

920 Sheridan Street
Laramie, Wyoming 82070

(307) 745-7474
FAX: (307) 745-7729

CERTIFICATION

I certify that the work presented in this report was performed under my supervision. To the best of my knowledge, the data contained herein are true and accurate and the work was performed in accordance with professional standards.



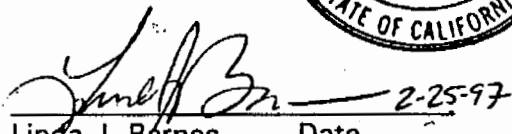

Linda J. Barnes Date 2-25-97
California Registered Geologist #6423
License expires October 31, 1997

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1.0 INTRODUCTION	1
2.0 GROUNDWATER FLOW	1
3.0 GROUNDWATER QUALITY	2
3.1 Water Quality Monitoring Procedures	2
3.2 Water Quality Results	2
3.3 Quality Control Results	3
4.0 FUTURE ACTIVITIES	3

LIST OF APPENDICES

Appendix

- A GROUNDWATER ELEVATION AND GROUNDWATER QUALITY DATA
- B LABORATORY ANALYTICAL REPORT, CHAIN-OF-CUSTODY/SAMPLE-ANALYSIS-REQUEST FORMS, GROUNDWATER QUALITY FIELD RECORDS
- C GROUNDWATER NATURAL ATTENUATION STUDY

LIST OF TABLES

Table

- A-1 Groundwater Elevation Data, Powerine Oil Company, Santa Fe Springs, California
- A-2 BTEX and MTBE Groundwater Data, Powerine Oil Company, Santa Fe Springs, California
- A-3 Chlorinated Organic Compounds Groundwater Data, Powerine Oil Company, Santa Fe Springs, California

LIST OF FIGURES

Figure

- 1 Location Map, Powerine Oil Company, Santa Fe Springs, California
- 2 Groundwater Elevation Contour Map, Powerine Oil Company, Santa Fe Springs, California (December, 1996)
- 3 Isoconcentration Map, Benzene, Powerine Oil Company, Santa Fe Springs, California (December, 1996)
- 4 Isoconcentration Map, Total Petroleum Hydrocarbon as Gasoline, Powerine Oil Company, Santa Fe Springs, California (December, 1996)

1.0 INTRODUCTION

Powerine Oil Company (POC) owns and operates a petroleum refinery located at 12354 Lakeland Road in Santa Fe Springs, California (Figure 1). The POC refinery has historically processed crude oil to make several grades of petroleum, including diesel, gasoline, and jet fuel. Powerine expects to resume operations of the refinery some time in 1997.

Groundwater quality monitoring is being conducted semiannually at POC. This report presents: the results of the monitoring event conducted in December 1996; field and analytical data collected from POC and Walker Property wells; and a study of groundwater intrinsic bioremediation/natural attenuation indicators. POC has prepared this report to satisfy the requirements of the semiannual groundwater monitoring program as directed by the State of California, Los Angeles Region, Regional Water Quality Control Board (LARWQCB).

The semiannual groundwater monitoring well network at POC currently consists of three up-gradient wells (MW-104, MW-105 and MW-106), twenty refinery and down-gradient wells, and four wells (W-1, W-2, W-3, and W-4) located on the nearby Walker Property (Figure 1).

2.0 GROUNDWATER FLOW

Fluid levels and total well depths were measured in all POC monitoring wells as part of the semiannual monitoring event. Fluid levels were measured using an oil water interface meter to verify the presence/absence of light non aqueous phase liquid (LNAPL). Based on previous water quality data for the site, fluid levels were measured in order of increasing groundwater contamination to reduce the possibility of cross contamination. Recent and historical groundwater elevation data are summarized in Table A-1 in Appendix A. As indicated on Table A-1, LNAPL was detected in two monitoring wells during this sampling event; Well MW-504 (0.3 feet) and Well MW-600 (2.55 feet). No LNAPL was detected in Well MW-601, which contained 0.28 feet of product during the previous monitoring event.

A groundwater elevation contour map was constructed using the fluid-level data collected in December 1996 (Figure 2). Prior to constructing the groundwater elevation contour map, fluid levels in both monitoring wells containing LNAPL were corrected to account for the presence of LNAPL on the groundwater. An average specific gravity of 0.75 was used as the correction factor (Table A-1).

As shown on Figure 2, groundwater in the vicinity of POC generally flows toward the south. Based on the December 1996 fluid level data, the hydraulic gradient underlying the site is approximately 0.008 feet/foot.

3.0 GROUNDWATER QUALITY

Groundwater samples were collected from 27 monitoring wells located at POC and nearby properties from December 16 through December 19, 1996. Samples were collected for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl-tertiary butyl ether (MTBE) and chlorinated hydrocarbons by EPA Method 8260, and total petroleum hydrocarbons as gasoline (TPH-G) by Modified EPA Method 8015. Blakely Environmental Investigations, Inc. (Wrightwood, California) also collected samples in support of a natural attenuation study. Their report is presented in Appendix C. Groundwater monitoring procedures used and the results of the December 1996 sampling event are discussed below.

3.1 Water Quality Monitoring Procedures

Groundwater sample collection procedures and field quality control procedures consisted of the following:

- Monitoring wells were sampled in order of increasing contamination based on historical water quality data to reduce cross contamination.
- Each monitoring well was purged with a decontaminated PVC bailer until the field parameters (specific conductivity, pH, and temperature) stabilized. At least one casing volume of standing water was removed from the well prior to the first field parameter measurement.
- One field blank and one equipment blank were collected each day sampling activities were conducted. The field blank was made up of reagent free distilled water and the equipment blank was made up of the same distilled water rinsate used in the decontamination of the sampling bailer.
- After field parameters had stabilized (two consecutive measurements within 10%), a stainless steel sampling bailer was lowered into the monitoring well and the sample was collected.

Field parameters were measured on the groundwater sample from each monitoring well immediately following sample collection by field personnel. Laboratory analyses (EPA methods 8260 and Modified 8015) were performed by Core Laboratories of Anaheim, California.

3.2 Water Quality Results

The results of the water quality analyses for BTEX/MTBE, TPH-G, and chlorinated hydrocarbons are summarized in data tables presented in Appendix A. A benzene isoconcentration map is presented on Figure 3. An isoconcentration map for total petroleum hydrocarbons as gasoline is presented on Figure 4. An isoconcentration map for toluene was not produced due to a lack of detected toluene during this monitoring event. Laboratory

analytical reports and groundwater quality field records are presented in Appendix B. The types and levels of hydrocarbon constituents detected in the monitoring wells were similar to previous monitoring results.

3.3 Quality Control Results

Quality control samples analyzed during the December 1996 sampling event included four field blanks and four equipment blanks. One field blank and one equipment blank were collected for each day samples were collected. Analytical results for the quality control samples are included in the laboratory analytical report presented in Appendix B. Generally, the analytical data from this monitoring event are consistent with analytical data from previous events.

Although there were anomalies in some of the laboratory QA/QC results, these anomalies did not affect the overall integrity of the reported analytical results from the groundwater monitoring wells. Groundwater samples from wells MW-600, MW-601, and W-2 were analyzed by the laboratory for EPA Method 8260 up to three days after the fourteen-day holding time had expired. The groundwater sample from Well W-2 was also analyzed for TPH-G two days after the fourteen day holding time had expired. Laboratory results for the groundwater samples from wells MW-600 and MW-601 were comparable with previous groundwater analytical results from these wells. POC does not have historical TPH-G or Method 8260 data from the Walker Property Well W-2, but will obtain groundwater analyses from this location during the next monitoring event. The surrogate recovery for the MTBE analyses on the groundwater sample from Well MW-101 was outside acceptable ranges (by one percentage point) due to matrix effects. However, MTBE was not detected in the groundwater sample from this well, a result which is consistent with historical groundwater analytical data.

4.0 FUTURE ACTIVITIES

The next semiannual groundwater monitoring event is scheduled for June, 1997.

FIGURES



FIGURE I-1 LOCATION MAP, POWERLINE REFINERY, SANTA FE SPRINGS, CALIFORNIA

ATTACHMENT 8

Regional Water Quality Control Board Order

Attachment 8

Regional Water Quality Control Board Order

Post-It™ brand fax transmittal memo 7671		# of pages > 8
To <i>Ahmed Hegab</i>	From <i>Keith Atwell</i>	
Co. <i>DTSC-3</i>	Co. <i>DTSC</i>	
Dept.	Phone # <i>213/266-2644</i>	
Fax # <i>(818) 557-2841</i>	Fax #	

213-897-1560

California
QUALITY CONTROL BOARD

LOS ANGELES REGION

CLEANUP AND ABATEMENT ORDER NO. 97-118

REQUIRING POWERINE OIL COMPANY
TO CLEANUP AND ABATE THE EFFECTS OF UNCONTROLLED RELEASES OF
PETROLEUM HYDROCARBONS
TO SOIL AND GROUND WATER

(File No. 85-18)

The California Regional Water Quality Control Board, Los Angeles Region, finds:

1. The Powerine Oil Company, a California corporation, (hereafter referred to as the Discharger), operates a 88 acre Refinery, located at 12345 Lakeland Road. The refinery includes the Bloomfield Property, located at 10820 Bloomfield Avenue, and interconnecting pipelines from the refinery to its former Marine Terminal located at Berth 73 Port of Long Beach. The Powerine Oil Company is currently owned by Energy Merchant Corporation.
2. The refinery site has been used for refining purposes since 1936. The refinery processes raw materials, including crude oil, raw naphtha to produce petroleum products. The components 1,2-dichloroethane and tetrachloroethene were used at the site and stored near the refinery laboratory in above ground tanks. Tetrachloroethene may have been used at the site as a catalyst activator and 1,2-dichloroethane may have been used as a lead scavenger. The main products produced by the refinery are transportation fuels, including kerosene, jet A fuel, unleaded gasoline, high and low sulfur diesel, fuel oil, and petroleum coke. The refinery also produces refinery gas and hydrogen, which are consumed internally by the refinery. In addition, the refinery produces revenue generating non-fuel by-products such as sulfur and carbon dioxide.
3. From 1968 to March 1986, the Discharger leased a small portion of the Walker property, located at 11240 Bloomfield Avenue, Santa Fe Springs, as a terminalling facility for storage and transferring of asphalt, jet fuel, gas oil, fuel oil, butane, carbon dioxide, and liquified petroleum gas. The two large tanks existed at the site as early as 1945, prior to Powerine use of the tanks.
4. In March 1984, Powerine sought Chapter 11 bankruptcy protection and shut down the refinery. In September, 1986, Powerine Oil Company emerged from bankruptcy. The refinery operated from 1986 until 1995 undergoing a series of ownership changes that ultimately resulted in a July, 1995 shutdown of their 49,500 barrel per day refining process and layoff of most of their 400 employees. During this time, Order No. 85-17 was adopted by this Regional Board directing Powerine Oil Company to conduct a subsurface investigation of their Refinery and to detect and assess any conditions of soil and ground water pollution which may be present. This Order provides that additional Orders shall be issued to correct any condition of pollution found. In response to this Order, the Discharger: Investigated the extent of ground water contamination originating from the

Powerine Oil Company
Cleanup and Abatement Order No. 97-118

File No. 85-18

refinery and initiated some soil cleanup and operation of a free-phase petroleum hydrocarbon product removal system. In 1991, free-phase hydrocarbon removal was suspended due to the unrecoverability of the remaining free-phase petroleum hydrocarbon on the ground water. Little free-phase petroleum hydrocarbon contamination remains but extensive dissolved-phase contamination remain on-site and off-site, including under the State Hospital to the south. In early 1996 the Energy Merchant Corporation acquired Powerine with the intent of restarting the refinery and reestablishing Powerine in the petroleum refining business. Powerine stated that the sale of its former administrative building and terminalling facility property located at 12354 Lakeland Road, is key to the financing of the proposed refinery start-up. To facilitate this sale, on June 24, 1997, Powerine requested that this Regional Board enter into a Prospective Purchaser Agreement covering only the Lakeland Road portion of their refinery property.

5. Prior to their request for a Prospective Purchaser Agreement, Powerine initiated shallow soil remediation on the Lakeland Property and requested a no further action letter to facilitate the sale of the land. This remediation action consisted of demolition of the above ground tanks and associated pipelines at the Lakeland Property and removal of about 5,100 cubic yards of petroleum hydrocarbon saturated soils for staging prior to treatment or off-site disposal.
6. After Powerine's remediation efforts, on May 14, 1997, staff issued a "No Further Action" letter regarding soil contamination which provided that reasonable precautions are to be taken by those involved in any excavation, borings or related activities involving the subsurface of the subject site. This no further action letter was based upon:
 - a. Shallow soils meet the Board's cleanup goals for low risk sites. Deeper soil contamination remaining contain up to 27,000 mg/kg total petroleum hydrocarbon (TPH) as gasoline, up to 3.3 mg/kg methyl tertiary butyl ether (MTBE), 200 mg/kg benzene and up to 110 mg/kg naphthalene and pose no risk to surface development.
 - b. A "Fate and Transport/Human Health Risk Assessment", dated March 21, 1997, and update of May 12, 1997, indicate that remaining site soil contaminants will not impact the ground water, the incremental cancer risk was predicted to be less than 0.5 in one million for a site industrial worker, and the non-carcinogenic hazard index was predicted to be less than 0.013.
 - c. Existing ground water contamination with up to 14,000 mg/l benzene was deferred from the no further action letter for later cleanup under the refinery cleanup and abatement Order. Analyses for three on-site production wells, screened in the Silverado aquifer, were below detection limits for all constituents except for 0.88 µg/l toluene in production well number 6, which appeared to be an anomaly.

7. The refinery is underlain by several water-bearing zones. The uppermost water-bearing zone is the unconfined Artesia aquifer. The depth to ground water underlying the refinery is generally 80 feet to 100 feet below ground surface (bgs). Ground water flow direction is generally south in the vicinity of the refinery with an apparent ground water divide about one mile south of the refinery. A deeper probable water-bearing zone at about 200 feet to 400 feet bgs located in the Lynwood formation and a water bearing zone at about 600 to 800 feet bgs called the Silverado aquifer, is a drinking water source for the area.
8. Ground water production wells, screened in the Silverado aquifer, within four miles of the refinery supply drinking water for approximately 114,000 people, supplied by five water purveyors.
9. Free-floating hydrocarbon product was identified in the Artesia aquifer underlying the refinery and is known to have migrated off-site in this aquifer. The discharger initiated recovery of free floating hydrocarbon from the Artesia aquifer in the summer of 1990. As of March 1995, about 520 gallons of hydrocarbon have been recovered from the Artesia aquifer and the maximum hydrocarbon thickness has been reduced to from 2.96 feet to 0.3 feet.
10. The U.S. EPA conducted a Site Inspection Prioritization (SIP) of the refinery and prepared a report, dated September 11, 1995. This report indicated that further assessment is needed under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), the Regional Board is the lead agency for this site and that EPA will continue to monitor the sites progress.
11. The Regional Board adopted a revised Water Quality Control Plan for the Los Angeles Region on June 13, 1994. This Water Quality Control Plan designates beneficial uses and establishes water quality objectives for all ground water within the Region. Existing or potential beneficial uses for ground water in the Coastal Plain, where the site is located, are municipal and domestic supply, agricultural supply, and industrial service and process supply. Ground water in the Silverado aquifer is usually of best quality and quantity.
12. The California Water Code, Section 13304, "Cleanup and Abatement Orders", requires in part, that any discharge of waste into the waters of the state, that creates, or threatens to create, a condition of pollution or nuisance, shall upon order of the Regional Board cleanup such waste or abate the effects thereof. If such waste is cleaned up, the effects thereof abated, the person or persons who discharged the waste, shall be liable to that governmental agency [for its supervision] to the extent of the reasonable costs actually incurred in cleaning up such waste and abating the effects thereof.
13. Additionally, under the Aboveground Tank Act (SB 1050), the discharger is required to reimburse the State of California for staff oversight costs associated with cleanup and abatement activities. To that end, the discharger, via a letter dated March 11, 1993, agreed to reimburse the State of California for staff oversight costs associated with cleanup activities at this facility.

14. This enforcement action is being taken for the protection of the environment and, as such, is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000, et. seq.) in accordance with Section 15321, Chapter 3, Title 14, California Code of Regulations.

The Regional Board has notified the discharger of its intent to issue an Order requiring it to cleanup and abate conditions of soil and ground water pollution caused by the release of petroleum hydrocarbon products from their properties and has provided them with an opportunity to submit their written views and recommendations.

The Regional Board, in a public meeting, heard and considered all comments pertaining to the tentative Order.

IT IS HEREBY ORDERED, pursuant to California Water Code 13304, that Powerine Oil Company shall:

1. Cleanup and abate the effects of on-site and off-site soil and ground water contamination originating from its refinery, including its Bloomfield Property, activities associated with two above ground storage tanks on the "Walker Property" located at 11240 Bloomfield Avenue, and its interconnecting pipelines to its former Marine Terminal, located at Berth 73 in the Port of Long Beach, Long Beach, California. In addition, cleanup and abate the effects of on-site and off-site ground water contamination which may have originated from its Lakeland Property, as required by this Regional Board.
2. Submit to this Regional Board by March 15, 1998, a Master Work Plan and time schedule for approval by the Executive Officer, that details all known on-site and off-site ground water and soil contaminated areas for cleanup. The Master Work Plan shall provide a time schedule for cleanup of all detailed ground water and soil contamination. These activities shall be conducted according to approved work plans, the requirements of the State Water Resources Control Board Resolution No. 92-49 "Policies and Procedure", and the time schedule specified in the Master Work Plan. The Master Work Plan shall include at a minimum the following items:
 - a. An updated refinery source identification and elimination plan including a plan and time schedule for implementation of the site source identification and elimination program within 90 days of approval of the plan by the Executive Officer. The plan is to detect leakage from above ground tanks and associated piping, identify free phase petroleum hydrocarbon in the vadose zone, and remediate any petroleum hydrocarbon contamination in a timely manner.
 - b. A plan and schedule for final site assessment of all soil and ground water contamination to:
 - 1) Fully delineate the extent of free-phase and dissolved phase ground water contamination in the upper saturated zone and underlying saturated zones. Off-site investigations coordinated to include neighboring facilities are

Powerline Oil Company
Cleanup and Abatement Order No. 97-118

File No. 85-18

- considered a vital part of this effort. Complete the preliminary investigation and characterization of all known on-site vadose zone contamination. Define the lateral and vertical extent of such contamination, characterize and evaluate contaminant behavior, and evaluate the potential impact on ground water quality.
- 2) Develop specific aquifer characteristics, such as hydraulic conductivity, for the uppermost saturated zone and any underlying contaminated aquifers;
 - 3) Assess the saturated zone hydraulic characteristics and conductivity (i.e., determine the connection between saturated units or aquitards underlying any soil or ground water contamination).
- c. A description of the current facility ground water cleanup strategy to remediate any on-site and off-site free-phase and dissolved phase ground water contamination.
 - d. A schedule for initiating cleanup of all known ground water contamination.
 - e. A schedule for initiating cleanup of all known vadose zone contamination. Cleanup levels shall be approved in Waste Discharge Requirements issued by this Regional Board.
3. After completion of any phase of ground water or soil investigation or cleanup, according to the approved time schedule in the Master Work Plan, a detailed report describing the activities and results shall be submitted to this Regional Board. Semi-annual progress reports shall be submitted until all required activities are completed.
 4. Pursuant to Section 13267 of the Water Code, the discharger shall submit, under penalty of perjury, to this Regional Board technical reports to include semi-annual progress and ground water elevation gauging and sampling reports until completion of all Regional Board mandated work. These reports must contain, at a minimum, the following information:
 - a. A summary of all ground water elevation measurements from mean sea level and depths to ground water from all site monitoring wells. Monitoring wells should be sounded for total depth at each gauging event. This information should be presented in tabular form to include well location (latitude/longitude or x/y coordinate system) and on a plot plan depicting the location of the borings/wells with ground water contours depicting groundwater flow direction and gradient information. Also, include a free phase hydrocarbon isothickness map and a dissolved phase contaminant isoconcentration contour map, if applicable.
 - b. Analyses of ground water collected from selected site monitoring wells during the sampling period, as approved by the Executive Officer, together with an evaluation

Powerline Oil Company
Cleanup and Abatement Order No. 97-118

File No. 85-18

of the test results. Ground water sample collection procedures and analyses shall be according to an approved work plan.

- c. The above data shall be submitted by hard-copy in a report and if requested, electronically in a format acceptable to the Executive Officer.
 - d. Investigative and remedial activities completed during the reporting period and activities proposed for the next reporting period.
5. Any request for time extensions of the completion dates, shown in the approved Master Work Plan, must include justification for such time extension and be submitted in writing to the Executive Officer for approval.
 6. Abandonment of any ground water well(s) at the site must be reported to the Executive Officer in advance when possible, but no later than 14 days after removal. Any ground water well removed must be replaced within a reasonable time, at a location approved by the Executive Officer. With justification, the Executive Officer may approve of the abandonment of ground water wells without replacement. When a well is removed, all work shall be completed in accordance with all applicable well abandonment requirements.
 7. All work, except the source elimination program, performed pursuant to this Order shall be under the direction and supervision of a registered Civil Engineer or Geologist or a Certified Engineering Geologist. The Discharger's contractor or consultant shall have the technical expertise sufficient to adequately perform all aspects of the work for which they are responsible.
 8. When required, it is the intent of this Regional Board to issue Waste Discharge Requirements or other Orders pursuant to Section 13260, Section 13304, and/or Section 13350 of the Water Code to facilitate this cleanup and abatement activity.
 9. The Regional Board and other Regional Board authorized representative shall be allowed:
 - a. Entry upon premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order;
 - b. Access to copy any records that are kept under the conditions of this order;
 - c. To inspect any facility, equipment (including monitoring and control equipment), practices, or operations regulated or required under this order; and
 - d. To photograph, sample, and monitor for the purpose of assuring compliance with this Order, or as otherwise authorized by the California Water Code.

Powerine Oil Company
Cleanup and Abatement Order No. 97-118

File No. 85-18

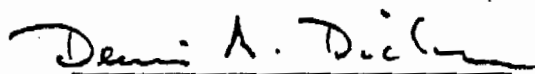
10. Any investigation and cleanup and mitigation activities required by this Order, currently in progress or conducted in the past, shall be included and made a part of the cleanup program.
11. This Order is not intended to permit or allow the discharger to cease any work required by any other Order issued by this Regional Board, nor shall it be used as a reason to stop or redirect any investigation or mitigation activities not required by this Order or any other agency.
12. This Order in no way limits the authority of the Regional Board as contained in the California Water Code, to require additional investigation and cleanup pertinent to this project. It is the intent of this Regional Board to issue Waste Discharge Requirements or other Orders pursuant to Section 13260, Section 13304, and/or Section 13350 of the Water Code when appropriate to facilitate this cleanup and abatement activity. Additionally, continued monitoring of the ground water quality beneath this facility after the completion of this cleanup and abatement activity may be required.
13. Provide to the Regional Board advance notice of any planned physical alterations to the facility or planned changes in the facility's activities that may affect compliance with this Order.
14. This Order does not exempt the discharger from compliance with any other laws, regulations, or ordinances which may be applicable, nor does it legalize these waste treatment and disposal facilities and it leaves unaffected any further restraints on those facilities which may be contained in other statutes or required by other agencies.
15. Provide to the Regional Board advance notice of any planned change in name, ownership, or control of the facility; provide notice to any succeeding owner or operator of the existence of this Order by letter; forward a copy of such notification to the Regional Board.
16. Pursuant to Section 13304 of the Water Code, the discharger shall reimburse the State Water Resources Control Board (SWRCB) for all reasonable costs incurred by the State Board and this Regional Board in overseeing the cleanup and abatement activities required by this order.
17. This order may be revised by the Regional Board through its Executive Officer as additional information on this site becomes available. Upon request by the discharger, and for good cause shown the Executive Officer may defer, delete or extend the date of compliance for any action required of the discharger under this Order. The authority of the Regional Board, as contained in the California Water code, to order investigation and cleanup additional to that described herein, is in no way limited by this Order.

Powerline Oil Company
Cleanup and Abatement Order No. 97-118

File No. 85-18

Failure to comply with the terms or conditions of this Order may result in the imposition of civil liabilities, either administratively by the Regional Board or judicially by the Superior Court, in accordance with Section 13350, et seq., of the California Water Code, and/or referral to the Attorney General of the State of California for such action as he may deem appropriate.

I, Dennis A. Dickerson, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region on August 25, 1997.



DENNIS A. DICKERSON
Executive Officer

ATTACHMENT 9

Hazardous Waste Manifest for 1996-1998

Attachment 9

Hazardous Waste Manifest for 1996-1998

HAZARDOUS WASTE MANIFEST TRACKING SYSTEM

5/28/97

DATE	DOCUMENT #	TRANSPORTER	FACILITY	ST	DESCRIPTION	AMOUNT/UNIT	Number	Type	Fed Waste Code	State Waste Code
1/18/95	AR-735578	DART TRUCKING INCORP	ENSCO	AR	REF11A: DI-TERTIARY METHY-POLYSULFIDE	7,380 LBS	15	DM	D003	
1/18/95	AR-735578	DART TRUCKING INCORP	ENSCO	AR	REF11B: DIMETHY DISULFIDE	4,380 LBS	6	DM	D001,D003	
1/20/95	92892996	THOMAS CRANE & TRUCKING	US ECOLOGY	NV	SPENT UNIFINER CATALYST WS 07-012-3026	26,600 LBS	62	DM	N/A	162
2/8/95	95309781	SECURITY ENV. SYSTEM	US ECOLOGY	NV	SOLID WASTE FILTERS 07-012-3740	14,390 LBS	1	CM	N/A	181
3/29/95	92892994	ROMIC ENVIRONMENTAL TECH	ROMIC ENVIRONMENTAL TECH	CA	TRICHLOROTRIFLUOROETHANE	796 LBS	1	DM	F002	741
4/6/95	92649555	ENVIROCON INC	AZUSA LAND RECLAMATION	CA	RQ ASBESTOS, 9, NA2212, PG III	1,960 LBS	107	BA	N/A	151
4/28/95	92892946	TRI-STATE MOTOR TRANSIT	KETTLEMAN HILLS DISPOSAL	CA	BC 4937-049 (TRASH W/DIRT)	1,021 LBS	2	DM	N/A	181
4/28/95	92892946	TRI-STATE MOTOR TRANSIT	KETTLEMAN HILLS DISPOSAL	CA	BH 2786 (SANDBLAST W/DIRT)	825 LBS	1	DM	N/A	181
5/19/95	95327108	TRI-STATE MOTOR TRANSIT	KETTLEMAN HILLS DISPOSAL	CA	HAZARDOUS WASTE (CHROMIUM, LEAD)	6,090 LBS	12	DM	D007,D008	####
5/19/95	95327108	TRI-STATE MOTOR TRANSIT	KETTLEMAN HILLS DISPOSAL	CA	NON-RCRA HAZ WASTE DRIED PAINT	850 LBS	2	DM	N/A	61
5/19/95	95327095	TRI-STATE MOTOR TRANSIT	CHEMICAL WASTE MGMT INC	CA	HAZARDOUS WASTE SOLIDE NOS (API/EXCH SLUDGE)	1,050 LBS	2	DM	K050, K051	35
5/19/95	95327095	TRI-STATE MOTOR TRANSIT	CHEMICAL WASTE MGMT INC	CA	RQ WASTE FLAMMABLE LIQUID, NOS (WASTE THINNER)	210 LBS	1	DM	01, F003,F	212
5/19/95	95327095	TRI-STATE MOTOR TRANSIT	CHEMICAL WASTE MGMT INC	CA	RQ WASTE FLAMMABLE SOLID, NOS (METAL DEACTIVAT	250 LBS	1	DM	D001	352
8/10/95	LAA3283261	KVS SERVICES	AMAX METALS RECOVERY, INC	CA	WASTE SELF-HEATING SUBSTANCES, DHT CATALYST	27,620 LBS	53	DM	D018R	162
8/10/95	LAA3283264	KVS SERVICES	AMAX METALS RECOVERY, INC	CA	WASTE SELF-HEATING SUBSTANCES, DHT CATALYST	23,160 LBS	49	DM	D018R	162
8/16/95	95203676	TRI-STATE MOTOR TRANSIT	KETTLEMAN HILLS DISPOSAL	CA	RQ WASTE SODIUM NITRITE SOLID	118 LBS	1	DM	D001	141
8/16/95	95203674	TRI-STATE MOTOR TRANSIT	CHEMICAL WASTE MGMT INC	CA	RQ WASTE FLAMMABLE LIQUID, NOS	330 LBS	2	DM	D001, F003	212
8/17/95	95503670	ROMIC ENVIRONMENTAL TECH	ROMIC ENV TECH CORP	CA	HAZ WASTE LIQUID (TRICHLOROTRIFLUOROETHANE)	219 LBS	1	DM	F002	741
9/7/95	92649623	BDC SERVICES	AZUSA LAND RECLAMATION	CA	RQ ASBESTOS 9 NA2212, PG III	9 YDS	90	BA		151
11/13/95	92892985	RUEL SMITH	UOP-SHREVEPORT	LA	SPENT CATALYST, ALUMINUM OXIDE WITH PLAT.	10,000 lbs	20	DM	D018	491
1996										
7/9/96	92892984	JOHN THOMAS TRUCKING	DURA THERM	TX	HAZ SOLID WASTE NOS ORM-E NA 9188, K048,K049, KO	15 YDS	1	CM		
1997										
4/24/97	95916171	BDC*FALCON	AZUSA LAND RECLAMATION	CA	R.Q. ASBESTOS, 9, NA 2212, PGIII (NAERG#171)	20 YDS	1	CM	N/A	151

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <i>CA 00001291</i>		Manifest Document No.		2. Page 1 of		Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address <i>13351 Steiner Rd. St. Hunt, San Bernardino</i>						A. State Manifest Document Number 92892984				
4. Generator's Phone () <i>714 244 1111</i>						B. State Generator's ID				
5. Transporter 1 Company Name <i>13351 Steiner Rd. St. Hunt, San Bernardino</i>						C. State Transporter's ID 619425				
6. US EPA ID Number <i>CA 00001291</i>						D. Transporter's Phone () <i>714 244 1111</i>				
7. Transporter 2 Company Name <i>CA 12643</i>						E. State Transporter's ID				
8. US EPA ID Number						F. Transporter's Phone				
9. Designated Facility Name and Site Address <i>13351 Steiner Rd. St. Hunt, San Bernardino</i>						G. State Facility's ID				
10. US EPA ID Number						H. Facility's Phone <i>714 244 1111</i>				
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity	14. Unit Wt. Vol	I. Waste Number
						No.	Type			
a. <i>HAZARDOUS WASTE 52,840</i>										State
b. <i>HAZARDOUS WASTE 52,840</i>										EPA/Other
c. <i>7 tons HCL</i>										State
d.										EPA/Other
15. Special Handling Instructions and Additional Information <i>HAZARDOUS WASTE 52,840</i>						Handling Code for Wastes Listed Above				
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws.										
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.										
Printed/Typed Name <i>THOMAS TELFER</i>				Signature <i>THOMAS TELFER</i>				Month Day Year <i>07 09 96</i>		
17. Transporter 1 Acknowledgement of Receipt of Materials										
Printed/Typed Name <i>TOM TELFER</i>				Signature <i>TOM TELFER</i>				Month Day Year <i>07 09 96</i>		
18. Transporter 2 Acknowledgement of Receipt of Materials										
Printed/Typed Name				Signature				Month Day Year		
19. Discrepancy Indication Space										
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.										
Printed/Typed Name				Signature				Month Day Year		

DO NOT WRITE BELOW THIS LINE.

UNIFORM HAZARDOUS
WASTE MANIFEST

1. Generator's US EPA ID No.

CA70800012091

Manifest Document No.

2. Page 1

of

Information in the shaded areas
is not required by Federal law.

3. Generator's Name and Mailing Address

PO BOX 1000
1111 LINDEN AVE
SPRING VALLEY, CA 95772

4. Generator's Phone ()

944 1111

5. Transporter 1 Company Name

STERN TRANSPORTATION

6. US EPA ID Number

18851 Stewart St. Huntington Beach CA 92648

7. Transporter 2 Company Name

CA 92648

8. US EPA ID Number

9. Designated Facility Name and Site Address

1111 LINDEN AVE
2700 AVENUE
SPRING VALLEY, CA

10. US EPA ID Number

TX-481-05-077-
TX 019110537170

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)

a. ~~HAZARDOUS WASTE~~
HAZARDOUS WASTE
CRUDE NA 7182. 1045 1049, 1050, 1051

12. Containers

No.

Type

13. Total Quantity

14. Unit
Wt/Vol

001

CA

15 YARD

CY

b.

GROSS WT 52,840

c.

7 tons HETs

d.

15. Special Handling Instructions and Additional Information

REFINERY OILY SLUDGES THIS CONTAINS
AND OTHER TOXIC CHEMICALS

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name

THEODORE K METCALE

Signature

[Signature]

Month

Day

Year

07 09 96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

TOM TELFER

Signature

[Signature]

Month

Day

Year

07 10 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month

Day

Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Month

Day

Year

DO NOT WRITE BELOW THIS LINE.

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

GENERATOR

FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator Name and Mailing Address POWERINE P.O. BOX 2108 SANTA FE SPRINGS, CA 90670		SITE: POWERINE 12354 LAKELAND RD. SANTA FE SPRINGS, CA.			
4. Generator's Phone (562) 944-6111		6. US EPA ID Number C A R D 0 0 0 0 1 7 6 5 7			
5. Transporter 1 Company Name BDC * FALCON SPECIAL WASTE SERVICES		8. US EPA ID Number			
7. Transporter 2 Company Name		10. US EPA ID Number C A D 0 0 3 0 0 7 6 2 6			
9. Designated Facility Name and Site Address AZUSA LAND RECLAMATION 1801 W. GLADSTONE AZUSA, CA 91702		12. Containers No. Type		13. Total Quantity	14. Unit Wt/Vol
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) a. R.D. ASBESTOS, 9, NA 2212, PGIII (NAERB#171)		001 CM00020 Y			
b.					
c.					
d.					
15. Special Handling Instructions and Additional Information 24 HRS. EMERGENCY 1-800-535-5053 RDC * FALCON 766 SOUTH AYON AVE. AZUSA, CA 91702 EPA REGION IX 75 HAWTHORNE ST. SAN FRANCISCO, CA. 94105 CLEVELAND ASBESTOS REMOVAL REQUIREMENT 40CFR61 (BAGGED SEALED & LABELED)					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name MATT WINTERFELD		Signature [Signature]		Month Day Year 01/21/97	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name ED GUERRERO		Signature [Signature]		Month Day Year 01/21/97	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name [Signature]					

DO NOT WRITE BELOW THIS LINE.

Yellow: TSCF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS.
(Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.)

Please TYPE (Form designed for use on elite (12-pitch) typewriter) or print LEGIBLY. Instructions on cover page.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in shaded area not required by Federal law. Minnesota rules require Items H. and I.
3. Generator's Name and Mailing Address (Also location of waste generation if different from mailing address.)		Powerline Oil Co. 12345 Lakeland Rd., 90670		A. State Manifest Document Number	MN 27232
4. Generator's Phone (562) 944-6111		County: Santa Fe Springs, CA		B. State Generator's ID	
5. Transporter 1 Company Name		Luminaire Recyclers		C. State Transporter's ID	
7. Transporter 2 Company Name				D. Transporter's Phone	
9. Designated Facility Name and Site Address		Luminaire Recyclers Inc. - 2161 W. University Ave., #206		E. State Transporter's ID	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		HA 000 8383291 97032		F. Transporter's Phone	
12. Containers		No. Type		G. State Facility's ID	
13. Total Quantity		4 DM 2800 P		H. Facility's Phone	612-649-0079
14. Unit Wt/Vol				I. Waste No.	
15. Special Handling Instructions and Additional Information		Emergency Response # 1-800-535-5053			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and all applicable state laws and regulations.					
17. Transporter 1 Acknowledgement of Receipt of Materials					
18. Transporter 2 Acknowledgement of Receipt of Materials					
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					

ATTACHMENT 10

Hazardous Materials Sample Analysis
Request Form, Spilled Samples Form and
HML Sample Request, Chain of Custody
Form and Lab Analysis

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

APR 07 1998

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR SCL SAMPLE(S) 16920 - 16924, 16926
2. SAMPLES WERE COLLECTED ON 1/27/98 AT POWERLINE OIL COMPANY
3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS AHMED E. HEGAB
4. SAMPLES WERE:

RECEIVED ON 1/29/98 BY HAZARDOUS MATERIALS LABORATORY-SO. CAL

EXTRACTED ON 02/05/98 - 02/09/98 BY SCL METHOD 815 GC/FID FOR TPH GASOLINE RANGE ORGANICS

ANALYZED ON 02/04/98 - 02/09/98 BY SCL METHOD 815

NOTE: SCL=HAZARDOUS MATERIALS LABORATORY-SO.CAL.

DATA PACKAGE WAS COMPLETED ON 2/11/98

5. DURING THE COURSE OF THESE ANALYSES, NO PROBLEM WAS ENCOUNTERED.
6. QC PARAMETERS/INDICATORS WERE WITHIN CONTROL LIMITS.
7. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE MET.
8. SAMPLE HOLDING TIME WAS MET.

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY-SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

REQUESTER: AHMED E. HEGAB

SCL NO 16920 - 16924

SAMPLE LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD,
SANTA FE SPRING, CA.90670

DATE REPORTED: 2/11/98

METHOD(S): SCL 815 GC/FID FOR TPH-GASOLINE RANGE ORGANICS (GROs)

GASOLINE - GROs ANALYSIS

ANALYTE	SCL NO.	16920	16921	16922	16923	16924	QUANTITATION LIMIT				
	COL. NO.	POC-1- 128A	POC-2- 128A	POC-3- 128A	POC-4- 128A	POC-5- 128A	16920	16921	16922	16923	16924
	MATRIX	OIL	OILY WATER	OILY WATER	OIL	SLUDGE					
	UNIT	MG/KG	MG/L	MG/L	MG/KG	MG/KG	MG/KG	MG/L	MG/L	MG/KG	MG/KG
GASOLINE-GROs		62,000	29	11	28,000	820	4500	1.8	0.9	900	45

NOTES: ND = NOT DETECTED

QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

SAMPLE PREPARATION:

ANALYST:

SUPERVISOR

Lucia Yap 3/10/98
LUCIA YAP DATE

Lucia Yap 3/10/98
LUCIA YAP DATE

Russ Chin 3/10/98
RUSS CHIN DATE

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY-SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

REQUESTER: AHMED E. HEGAB

SCL NO 16926

SAMPLE LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD,
SANTA FE SPRING, CA.90670

DATE REPORTED: 2/11/98

METHOD(S): SCL 815 GC/FID FOR TPH-GASOLINE RANGE ORGANICS (GROs)

GASOLINE - GROs

						QUANTITATION LIMIT				
ANALYTE	SCL NO.	16926				16926				
	COL. NO.	POC-7 128A								
	MATRIX	SOIL								
	UNIT	MG/KG					MG/KG			
GASOLINE - GROs	ND					45				

NOTES: ND = NOT DETECTED

QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

SAMPLE PREPARATION:

ANALYST:

SUPERVISOR

Lucia Yap 3/10/98
LUCIA YAP DATE

Lucia Yap 3/10/98
LUCIA YAP DATE

Russ Chin 3/10/98
RUSS CHIN DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

REQUESTER'S NAME: AHMED E. HEGAB

DATE SAMPLE RECEIVED: 1/29/98

SAMPLING LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD,
SANTA FE SPRING, CA.90670

DATE SAMPLE PREPARED: 02/05/98 - 02/09/98

DATE SAMPLE ANALYZED: 02/04/98 - 02/09/98

METHOD(S): SCL 815

QC REPORT FOR

A: METHOD BLANK
B: METHOD STANDARD RECOVERY
C: LABORATORY CONTROL SAMPLE
D: SAMPLE DUPLICATE ANALYSIS

COMPOUND	A	B		C	
	METHOD BLANK	METHOD STANDARD		LABORATORY CONTROL SAMPLE	
		RECOVERY	CONTROL LIMIT	FOUND	CONTROL LIMIT
		MG/KG	%	MG/KG	MG/KG
GASOLINE - GROs	<45	80.9	NDY		

D			
SAMPLE DUPLICATE ANALYSIS			
PERFORMED ON :	SCL NO.	16926	
MATRIX :			
	RUN 1	RUN 2	RPD
COMPOUND	MG/KG	MG/KG	%
NO DATA			
CONTROL LIMIT			

NOTES:

NDY = NOT DETERMINED YET

SAMPLE PREPARATION

ANALYST

SUPERVISOR

Lucia Yap 3/10/98
LUCIA YAP DATE

Lucia Yap 3/10/98
LUCIA YAP DATE

Carla Chin 3/10/98
RUSS CHIN DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580 - 5795

REQUESTER'S NAME: AHMED E. HEGAB DATE SAMPLE RECEIVED: 1/29/98

SAMPLING LOCATION: POWERLINE OIL COMPANY DATE SAMPLE PREPARED: 02/05/98 - 02/09/98
12345 LAKELAND RD.,
SANTA FE SPRINGS, CA 90670 DATE SAMPLE ANALYZED: 02/04/98 - 02/09/98

METHOD(S): SCL 815 GC/FID FOR GASOLINE ANALYSIS

QC REPORT FOR MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) PERCENT RECOVERY

MATRIX SPIKE PERFORMED ON 16926
TYPE OF MATRIX SOIL
TYPE OF SPIKE GASOLINE

COMPOUND	AMOUNT OF	AMOUNT OF	MATRIX SPIKE		MATRIX SPIKE		AVE % REC	CONTROL LIMITS FOR % REC	R % D BETWEEN MS/MSD	CONTROL LIMITS FOR RPD
	ANALYTE IN SAMPLE	ANALYTE ADDED	AMOUNT RECOVERE	%REC	AMOUNT RECOVERE	%REC				
	MG/KG	MG/KG	MG/KG	%	MG/KG	%				
GASOLINE	<45	1500	1658.9	110.6	1367.9	91.2	100.9	NDY	19.2	NDY

NOTES: NDY = NOT DETERMINED YET

SAMPLE PREPARATION

ANALYST

SUPERVISOR

Lucia Yap 3/10/98
LUCIA YAP DATE

Lucia Yap 3/10/98
LUCIA YAP DATE

Russ Chin 3/10/98
RUSS CHIN DATE

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR SCL SAMPLE(S) 16920 - 16924 ; 16926
2. SAMPLES WERE COLLECTED ON 1/27/98 AT POWERLINE OIL COMPANY
3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS AHMED E. HEGAB
4. SAMPLES WERE:

RECEIVED ON	<u>1/29/98</u>	BY HAZARDOUS MATERIALS LABORATORY-SO. CAL
EXTRACTED ON	<u>2/3/98</u>	BY EPA METHOD <u>3580</u> WASTE DILUTION
		BY EPA METHOD <u>3510</u> SEPARATORY FUNNEL LIQUID/LIQUID EXTRACTION
		BY EPA METHOD <u>3540</u> SOXHLET EXTRACTION
		BY SCL METHOD <u>106M</u> MECHANICAL SHAKER
CLEANED UP ON	<u>2/4/98</u>	BY EPA METHOD <u>3620</u> FLORISIL COLUMN CLEAN UP
ANALYZED ON	<u>2/5/98 - 2/6/98</u>	BY SCL METHOD <u>816</u> DIESEL BY GC/FID

NOTE: SCL=HAZARDOUS MATERIALS LABORATORY-SO.CAL.

DATA PACKAGE WAS COMPLETED ON 2/10/98

5. DURING THE COURSE OF THESE ANALYSES, NO PROBLEM WAS ENCOUNTERED.
6. QC PARAMETERS/INDICATORS WERE WITHIN CONTROL LIMITS.
7. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE MET.
8. SAMPLE HOLDING TIME WAS MET.

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY-SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

REQUESTER: AHMED E. HEGAB

SCL NO 16920 - 16924

SAMPLE LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD
SANTA FE SPRINGS, CA 90670

DATE REPORTED: 02/09/98

METHOD(S): SCL 816 DIESEL BY GC/FID

ANALYTE	SCL NO.	16920	16921	16922	16923	16924	QUANTITATION LIMIT				
	COL. NO.	POC-1 128A	POC-2 128A	POC-3 128A	POC-4 128A	POC-5 128A	16920	16921	16922	16923	16924
	MATRIX	LIQUID	LIQUID	LIQUID	LIQUID	SLUDGE					
	UNIT	MG/KG	MG/L	MG/L	MG/KG	MG/KG	MG/KG	MG/L	MG/L	MG/KG	MG/KG
DIESEL		250,000	140	2,100	390,000	52,000	10,500	105	105	10,500	5,250

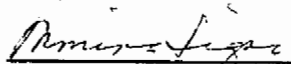
NOTES: ND = NOT DETECTED

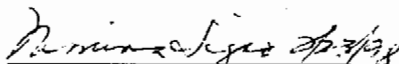
QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

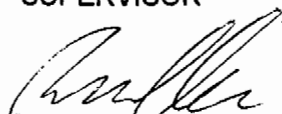
SAMPLE PREPARATION:

ANALYST:

SUPERVISOR

 2/23/98
MONINA LIGAO DATE

 2/23/98
MONINA LIGAO DATE

 2/23/98
RUSS CHIN DATE

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY-SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

REQUESTER: AHMED E. HEGAB

SCL NO 16926

SAMPLE LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD
SANTA FE SPRINGS, CA 90670

DATE REPORTED: : 2/9/98

METHOD(S): SCL 816 DIESEL BY GC/FID

						QUANTITATION LIMIT				
	SCL NO.	16926				16926				
	COL. NO.	POC-7 128A								
	MATRIX	SOIL								
ANALYTE	UNIT	MG/KG				MG/KG				
DIESEL	ND					105				

NOTES: ND = NOT DETECTED

QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

SAMPLE PREPARATION:

ANALYST:

SUPERVISOR

Monina Ligao 2/23/98
MONINA LIGAO DATE

Monina Ligao 2/23/98
MONINA LIGAO DATE

Russ Chin 2/23/98
RUSS CHIN DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

REQUESTER'S NAME: AHMED E. HEGAB

DATE SAMPLE RECEIVED: 01/29/98

SAMPLING LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD
SANTA FE SPRING

DATE SAMPLE PREPARED: 02/03/98-02/04/98

METHOD(S): SCL 816 DIESEL BY GC/FID

DATE SAMPLE ANALYZED: 02/05/98-02/06/98

QC REPORT FOR

- A: METHOD BLANK
- B: METHOD STANDARD RECOVERY
- C: LABORATORY CONTROL SAMPLE
- D: SAMPLE DUPLICATE ANALYSIS

COMPOUND	A	B		C	
	METHOD BLANK	METHOD STANDARD		LABORATORY CONTROL SAMPLE	
		RECOVERY	CONTROL LIMIT	FOUND	CONTROL LIMIT
		MG/L	%	MG/KG	MG/KG
DIESEL	< 105	88.9			

D			
SAMPLE DUPLICATE ANALYSIS			
PERFORMED ON :	SCL NO.	16923	
MATRIX :	LIQUID		
COMPOUND	RUN 1	RUN 2	RPD
	MG/KG	MG/KG	%
DIESEL	385,167	394,516	2.4
CONTROL LIMIT			NDY

NOTES:

NDY = NOT DETERMINED YET

SAMPLE PREPARATION

ANALYST

SUPERVISOR

Monina Ligao 2/23/98
MONINA LIGAO DATE

Monina Ligao 2/23/98
MONINA LIGAO DATE

Russ Chin 2/23/98
RUSS CHIN DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR SCL SAMPLES 16920-16924,16926
2. SAMPLES WERE COLLECTED ON 01/27/98 AT POWERLINE OIL COMPANY
12345 LAKELAND ROAD, SANTA FE SPRING CA 90670
3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS AHMED HEGAB
4. SAMPLES WERE :

RECEIVED	ON	<u>01/29/98</u>	BY	HML-SO.CAL.
EXTRACTED	ON	<u>01/29-30/98</u>	BY EPA METHOD	<u>3540</u> (SOXHLET EXTRACTION)
			EPA METHOD	<u>3510</u> (SEPARATORY FUNNEL LIQ/LIQ EXTRACTION)
			SOP METHOD	<u>106</u> (SHAKER WITH METHYLENE CHLORIDE)
			EPA METHOD	<u>3580</u> (WASTE DILUTION WITH METHYLENE CHLORIDE)
CLEANED	ON	<u>02/02-03/98</u>	BY EPA METHOD	<u>3640</u> (GEL PERMEATION COLUMN)
ANALYZED	ON	<u>02/04-09/98</u>	BY EPA METHOD	<u>8270</u> (SEMIVOLATILE ORGANICS BY GC/MS)

DATA PACKAGE WAS COMPLETED ON 02/10/98
5. NO MAJOR PROBLEMS WERE ENCOUNTERED DURING THE COURSE OF THESE ANALYSES.
ONE OUT 11 R&D BETWEEN MS/MSD WAS OUTSIDE THE ADVISORY CONTROL LIMITS. BASED ON THE
ACCEPTANCE CRITERIA ESTABLISHED FOR THIS METHOD.NO IMMEDIATE CORRECTIVE ACTION IS
NECESSARY.
6. ALL OTHER QC PARAMETERS /INDICATORS WERE WITHIN CONTROL LIMITS.
7. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE MET.
8. SAMPLE HOLDING TIME WAS MET.

LABORATORY REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580 5795

PAGE 1 OF 7

Lector's Name: AHMED HEGAB

SCL NO. : 16920-16923

Sample Location : POWERLINE OIL COMPANY
12345 LAKELAND ROAD, SANTA FE SPRING CA 90670

Date Reported : 02/09/98

Analytical Procedures Used : EPA 8270

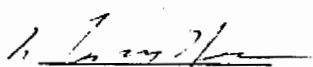
GC/MS SEMIVOLATILE ORGANICS ANALYSIS


							QUANTITATION LIMIT				
COMPOUNDS	SCL NO.		16920	16921	16922	16923	Method Blank	16920	16921	16922	16923
	COL.NO.	Method Blank	POC-1 128A	POC-2 128A	POC-3 128A	POC-4 128A					
	MATRIX	SOLVENT	OIL	LIQUID	LIQUID	OIL					
	UNIT	MG/KG	MG/KG	MG/L	MG/L	MG/KG		MG/KG	MG/L	MG/L	MG/KG
1,3-DICHLOROBENZENE	CAS No. 541-73-1	ND	ND	ND	ND	ND	50	100	3	1	150
BIS(2-CHLOROETHYL) ETHER	111-44-4	ND	ND	ND	ND	ND	50	100	3	1	150
1,4-DICHLOROBENZENE	106-46-7	ND	ND	ND	ND	ND	50	100	3	1	150
1,2-DICHLOROBENZENE	95-50-1	ND	ND	ND	ND	ND	50	100	3	1	150
HEXACHLOROETHANE	67-72-1	ND	ND	ND	ND	ND	50	100	3	1	150
BIS(2-CHLOROISOPROPYL)ETHER	39638-32-9	ND	ND	ND	ND	ND	50	100	3	1	150
N-NITROSO-DI-N-PROPYLAMINE	621-64-7	ND	ND	ND	ND	ND	50	100	3	1	150
NITROBENZENE	98-95-3	ND	ND	ND	ND	ND	50	100	3	1	150
ISOPHORONE	78-59-1	ND	ND	ND	ND	ND	50	100	3	1	150
1,2,4-TRICHLOROBENZENE	120-82-1	ND	ND	ND	ND	ND	50	100	3	1	150
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ND	ND	ND	ND	ND	50	100	3	1	150
HEXACHLOROBUTADIENE	87-68-3	ND	ND	ND	ND	ND	50	100	3	1	150
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	ND	ND	ND	ND	50	100	3	1	150
2-CHLORONAPHTHALENE	91-58-7	ND	ND	ND	ND	ND	50	100	3	1	150
DIMETHYLPHTHALATE	131-11-3	ND	ND	ND	ND	ND	50	100	3	1	150
2,6-DINITROTOLUENE	606-20-2	ND	ND	ND	ND	ND	50	100	3	1	150
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ND	ND	ND	ND	ND	50	100	3	1	150
2,4-DINITROTOLUENE	121-14-2	ND	ND	ND	ND	ND	50	100	3	1	150
DIETHYL PHTHALATE	84-66-2	ND	ND	ND	ND	ND	50	100	3	1	150

NOTE : QUANTITATION LIMIT = (CONCENTRATION OF THE LOWEST CALIBRATION STANDARD) TIMES (DILUTION FACTOR)
ND = NOT DETECTED

SAMPLE PREPARATION

ANALYST


MARY NEE


MARY NEE

LABORATORY REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580 5795

PAGE 4 OF 7

Lector's Name: AHMED HEGAB

SCL NO. : 16924,16926

Sample Location : POWERLINE OIL COMPANY
12345 LAKELAND ROAD,
SANTA FE SPRING, CA 90670

Date Reported : 02/09/98

Analytical Procedures Used : EPA 8270

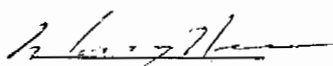
GC/MS SEMIVOLATILE ORGANICS ANALYSIS

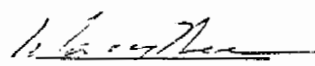
						QUANTITATION LIMIT			
COMPOUNDS	SCL NO.			16924	16926	Method Blank	Method Blank	16924	16926
	COL.NO.	Method Blank	Method Blank	POC-5 128A	POC-7 128A				
	MATRIX	SAND	WATER	SLUDGE	SOIL	SAND	WATER		
	UNIT	MG/KG	MG/L	MG/KG	MG/KG	MG/KG	MG/L	MG/KG	MG/KG
1,3-DICHLOROBENZENE	CAS No. 541-73-1	ND	ND	ND	ND	5	0.2	50	5
BIS(2-CHLOROETHYL) ETHER	111-44-4	ND	ND	ND	ND	5	0.2	50	5
1,4-DICHLOROBENZENE	106-46-7	ND	ND	ND	ND	5	0.2	50	5
1,2-DICHLOROBENZENE	95-50-1	ND	ND	ND	ND	5	0.2	50	5
HEXACHLOROETHANE	67-72-1	ND	ND	ND	ND	5	0.2	50	5
BIS(2-CHLOROISOPROPYL)ETHER	39638-32-9	ND	ND	ND	ND	5	0.2	50	5
N-NITROSO-DI-N-PROPYLAMINE	621-64-7	ND	ND	ND	ND	5	0.2	50	5
NITROBENZENE	98-95-3	ND	ND	ND	ND	5	0.2	50	5
ISOPHORONE	78-59-1	ND	ND	ND	ND	5	0.2	50	5
1,2,4-TRICHLOROBENZNE	120-82-1	ND	ND	ND	ND	5	0.2	50	5
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ND	ND	ND	ND	5	0.2	50	5
HEXACHLOROBUTADIENE	87-68-3	ND	ND	ND	ND	5	0.2	50	5
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	ND	ND	ND	5	0.2	50	5
2-CHLORONAPHTHALENE	91-58-7	ND	ND	ND	ND	5	0.2	50	5
DIMETHYLPHTHALATE	131-11-3	ND	ND	ND	ND	5	0.2	50	5
2,6-DINITROTOLUENE	606-20-2	ND	ND	ND	ND	5	0.2	50	5
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ND	ND	ND	ND	5	0.2	50	5
2,4-DINITROTOLUENE	121-14-2	ND	ND	ND	ND	5	0.2	50	5
DIETHYL PHTHALATE	84-66-2	ND	ND	ND	ND	5	0.2	50	5

NOTE : QUANTITATION LIMIT = (CONCENTRATION OF THE LOWEST CALIBRATION STANDARD) TIMES (DILUTION FACTOR)
ND = NOT DETECTED

SAMPLE PREPARATION

ANALYST


MARY NEE


MARY NEE

PAGE 1 OF 3

DATE SAMPLE RECEIVED: 01/29/98

DATE SAMPLE PREPARED: 01/29/98-02/03/98

DATE SAMPLE ANALYZED: 02/04-09/98

ANALYTICAL PROCEDURES USED:	EPA METHOD 8270	GC/MS FOR SEMIVOLATILE ORGANICS
	EPA METHOD 3540	SOXHLET EXTRACTION
	EPA METHOD 3510	SEPARATORY FUNNEL LIQ/LIQ EXTRACTION
	SOP METHOD 106	SHAKER WITH METHYLENE CHLORIDE
	EPA METHOD 3580	WASTE DILUTION WITH METHYLENE CHLORIDE
	EPA METHOD 3640	GEL PERMEATION COLUMN CLEANUP

QC REPORT FOR

A: METHOD STANDARD
B: LABORATORY CONTROL SAMPLE
C: DUPLICATE SAMPLE ANALYSIS

COMPOUND	A		B	
	METHOD STANDARD RECOVERY FOR EPA 3540	CONTROL LIMITS FOR METHOD STANDARD % RECOVERY	LAB CONTROL SAMPLE ID NO: LCS-BNA-1-0795 LCS-BNA-2-0795	
			Found	Control Limit
	%	%	mg/kg	mg/kg
PHENOL	103	59.8-117	726	485-940
2-CHLOROPHENOL	102	50.7-137	664	373-831
1,4-DICHLOROBENZENE	95	25.8-100	481	312-534
N-NITROSO-DI-N-PROPYLAMINE	107	60.8-115	878	584-1154
1,2,4-TRICHLOROBENZENE	105	48.2-115	569	418-774
4-CHLORO-3-METHYL PHENOL	115	68.6-117	704	672-936
ACENAPHTHENE	104	77.8-111	717	424-835
4-NITROPHENOL	123	60.0-128	932	508-1151
2,4-DINITROTOLUENE	118	73.0-119	939	578-1063
PENTACHLOROPHENOL	122	64.7-125	862	589-1020
PYRENE	117	73.1-117	704	386-820

C			
DULPICATE SAMPLE ANALYSIS			
Performed on SCL 16926		Matrix	SOIL
-----		-----	
COMPOUND	Run 1	Run 2	RPD
	mg/kg	mg/kg	%
NO DATA(Target compound detected was below the quantitation limit)			
CONTROL LIMIT			25

SAMPLE PREPARATION:

ANALYST:

SUPERVISING CHEMIST

MARY NEE

DATE _____

MARY NEE

DATE _____

RUSS CHIN

DATE _____

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES CA. 90026
TEL: (213) 580-5795

PAGE 2 OF 3

COLLECTOR'S NAME : AHMED HEGAB

DATE SAMPLE RECEIVED: 01/29/98

SAMPLING LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD SANTA FE SPRING CA. 90670

DATE SAMPLE PREPARED: 01/29/98-02/03/98

ANALYTICAL BATCH LAB ID NO.: SCL 16920-16924,16926

DATE SAMPLE ANALYZED: 02/04-09/98

ANALYTICAL PROCEDURES USED: EPA METHOD 8270 GC/MS FOR SEMIVOLATILE ORGANICS
EPA METHOD 3540 SOXHLET EXTRACTION
EPA METHOD 3510 SEPARATORY FUNNEL LIQ/LIQ EXTRACTION
SOP METHOS 106 SHAKER WITH METHYLENE CHLORIDE
EPA METHOD 3580 WASTE DILUTION WITH METHYLENE CHLORIDE
EPA METHOD 3640 GEL PERMEATION COLUMN CLEANUP

QC REPORT FOR

MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) PERCENT RECOVERY

MATRIX SPIKE REFORMED ON SCL 16926

TYPE OF MATRIX SOIL

COMPOUND	AMOUNT OF ANALYTE IN SAMPLE	AMOUNT ANALYTE ADDED	MATRIX SPIKE		MATRIX SPIKE DUPLICATE		AVE % REC	CONTROL LIMITS FOR % REC	R % D BETWEEN MS/MSD	CONTROL LIMITS FOR RPD
			AMOUNT RECOVERED	% REC	AMOUNT RECOVERED	% REC				
	MG/KG	MG/KG	MG/KG	%	MG/KG	%	%	MG/KG	%	%
PHENOL	<10	1000	952	95	940	94	94	57.0-125	1.1	0-25
2-CHLOROPHENOL	<10	1000	957	96	976	98	97	54.9-118	2.1	0-25
1,4-DICHLOROBENZENE	<5	500	467	93	472	94	94	38.3-117	1.1	0-25
N-NITROSO-DI-N-PROPYLAMINE	<5	500	244	49	360	72	60	48.9-137	* 38	0-25
1,2,4-TRICHLOROBENZENE	<5	500	510	102	492	98	100	63.3-107	4.0	0-25
4-CHLORO-3-METHYL PHENOL	<10	1000	1074	107	1030	103	105	60.8-132	3.8	0-25
ACENAPHTHENE	<5	500	493	99	492	98	98	74.4-114	1.0	0-25
4-NITROPHENOL	<50	1000	1191	119	1396	140	130	35.5-148	16	0-25
2,4-DINITROTOLUENE	<5	500	506	101	540	108	104	54.3-129	6.7	0-25
PENTACHLOROPHENOL	<50	1000	1110	111	1130	113	112	48.5-134	1.8	0-25
PYRENE	<5	500	547	109	521	104	106	52.4-131	4.7	0-25

(Amount recovered - Amount found in sample)

NOTE : % REC = $\frac{\text{Amount recovered} - \text{Amount found in sample}}{\text{Amount added}} \times 100\%$

* = R%D BETWEEN MS/MSD WAS OUTSIDE THE ADVISORY CONTROL LIMIT. NO IMMEDIATE CORRECTIVE ACTION IS NECESSARY.

MPLE PREPARATION

ANALYST

SUPERVISING CHEMIST

MARY NEE

DATE

MARY NEE

DATE

RUSS CHIN

DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES CA. 90026
TEL: (213) 580 5795

PAGE 3 OF 3

COLLECTOR'S NAME : AHMED HEGAB

DATE SAMPLE RECEIVED: 01/29/98

SAMPLING LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD,
SANTA FE SPRING, CA 90670

DATE SAMPLE PREPARED: 01/29/98-02/03/98

ANALYTICAL BATCH LAB ID NO.: SCL 16920-16924, 16926

DATE SAMPLE ANALYZED: 02/04-09/98

ANALYTICAL PROCEDURES USED: EPA METHOD 8270 GC/MS FOR SEMIVOLATILE ORGANICS
EPA METHOD 3540 SOXHLET EXTRACTION
EPA METHOD 3510 SEPARATORY FUNNEL LIQ/LIQ EXTRACTION
SOP METHOD 106 SHAKER WITH METHYLENE CHLORIDE
EPA METHOD 3580 WASTE DILUTION WITH METHYLENE CHLORIDE
EPA METHOD 3640 GEL PERMEATION COLUMN CLEANUP

QC REPORT FOR SEMIVOLATILE SURROGATE RECOVERY

QC SAMPLES / SAMPLE NO.	2-FLUOROPHENOL			PHENOL-d6			NITROBENZENE-d5			2-FLUOROBIPHENYL			2,4,6-TRIBROMOPHENOL		
	ADDED		RECOVERED	ADDED		RECOVERED	ADDED		RECOVERED	ADDED		RECOVERED	ADDED		RECOVERED
	MG/KG	MG/KG	% REC	MG/KG	MG/KG	% REC	MG/KG	MG/KG	% REC	MG/KG	MG/KG	% REC	MG/KG	MG/KG	% REC
METHOD BLANK - SOIL	200	198	98	200	175	87	100	99	99	100	108	108	200	205	102
METHOD BLANK - WATER	8.0	7.7	96	8.0	6.6	82	4.0	4.0	100	4.0	4.1	102	8.0	8.9	111
METHOD BLANK - SLUDGE	2000	1911	96	2000	1726	86	1000	972	97	1000	958	96	2000	2384	119
METHOD STANDARD	200	204	102	200	204	102	100	100	100	100	99	99	200	237	118
MATRIX SPIKE	1000	927	93	1000	969	97	500	498	100	500	469	94	1000	1129	113
MATRIX SPIKE DUPLICATE	1000	952	95	1000	958	96	500	480	96	500	470	94	1000	1082	108
LAB CONTROL SAMPLE	1000	980	98	1000	941	94	500	482	96	500	500	100	1000	1097	110
SCL 16920	2000	2081	104	2000	1909	95	1000	1076	108	1000	1001	100	2000	1927	96
SCL 16921 (MG/L)	40	44.5	111	40	40.9	102	20	17.5	88	20	18.0	90	40	34.7	87
SCL 16922 (MG/L)	20	18.5	93	20	17.6	88	10	8.5	85	10	8.9	89	20	19.3	96
SCL 16923	2000	2199	110	2000	1903	95	1000	954	95	1000	956	96	2000	1500	75
SCL 16924	2000	1615	81	2000	1605	80	1000	874	87	1000	905	90	2000	1810	90
SCL 16926	200	190	95	200	175	88	100	85	84	100	91	91	200	172	86
SCL 16926 DUPLICATE	200	199	100	200	174	87	100	100	100	100	102	102	200	206	103
CONTROL LIMIT FOR %REC	38.6-149			56.7-141			38.2-138			60.1-123			41.6-128		

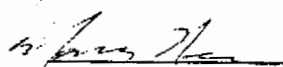
NOTE: NR = NOT RECOVERED

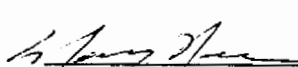
NA = NOT ANALYZED

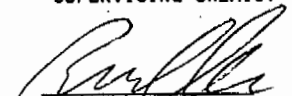
SAMPLE PREPARATION:

ANALYST:

SUPERVISING CHEMIST


MARY NEE
7/24/98
DATE


MARY NEE
7/24/98
DATE


RUSS CHIN
7/24/98
DATE

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR SCL SAMPLE(S) 16920 to 16924, 16926
2. SAMPLES WERE COLLECTED ON 1/28/98 AT POWERLINE OIL COMPANY
3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS AHMED E. HEGAB
4. SAMPLES WERE:

RECEIVED ON 1/29/98 BY HAZARDOUS MATERIALS LABORATORY-SO. CAL

EXTRACTED AND
ANALYZED ON 1/30/98, 2/2/98 BY EPA METHOD 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

DATA PACKAGE WAS COMPLETED ON 2/10/98
5. DURING THE COURSE OF THESE ANALYSES, NO PROBLEM WAS ENCOUNTERED.
6. QC PARAMETERS/INDICATORS WERE WITHIN CONTROL LIMITS.
7. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE MET.
8. SAMPLE HOLDING TIME WAS MET.

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY-SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

QUESTER: AHMED E. HEGAB
SAMPLE LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD, SANTA FE SPRING
CA 90670

SCL NO. 16920-16923
DATE REPORTED: 02/10/98

METHOD(S): EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

VOCs BY GC/MS

ANALYTE							QUANTITATION LIMIT				
	SCL NO.		16920	16921	16922	16923	METHOD BLANK	16920	16921	16922	16923
	COL. NO.	METHOD	POC-1- 128A	POC-2 128A	POC-3 128A	POC-4 128A					
	MATRIX	WATER	LIQUID	WATER	WATER	LIQUID					
	UNIT	UG/L	MG/KG	UG/L	UG/L	MG/KG	UG/L	MG/KG	UG/L	UG/L	MG/KG
ACETONE		ND	*7400	ND	ND	ND	50.0	8500	12500	6250	2200
1,1-DICHLOROETHENE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
METHYLENE CHLORIDE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
trans-1,2-DICHLOROETHENE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
1,1-DICHLOROETHANE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
2-BUTANONE (MEK)		ND	ND	ND	ND	ND	50.0	8500	12500	6250	2200
cis-1,2-DICHLOROETHENE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
2,2-DICHLOROPROPANE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
CHLOROFORM		ND	ND	ND	ND	ND	5.0	850	1250	625	220
BROMOCHLOROMETHANE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
1,1,1-TRICHLOROETHANE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
1,2-DICHLOROETHANE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
BENZENE		ND	*350	1900	1300	280	5.0	850	1250	625	220
1,1-DICHLOROPROPENE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
CARBONTETRACHLORIDE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
1,2-DICHLOROPROPANE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
TRICHLOROETHENE		ND	ND	ND	ND	ND	5.0	850	1250	625	220

NOTES: ND = NOT DETECTED UG = MICROGRAM MG = MILLIGRAM
QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYST

Jorge Ang
Jorge Ang

2/25/98
DATE

SUPERVISOR

Russ Chin
RUSS CHIN
2/25/98
DATE

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY-SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

REQUESTER: AHMED E. HEGAB
SAMPLE LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD, SANTA FE SPRING
CA 90670

SCL NO. 16924,16926
DATE REPORTED: 2/10/98

METHOD(S): EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

VOCs BY GC/MS

ANALYTE	QUANTITATION LIMIT						
	SCL NO.		16924	16926		16924	16926
	COL. NO.	METHOD	POC-5	POC-7-	METHOD		
	MATRIX	WATER	SLUDGE	SOIL	BLANK		
	UNIT	UG/L	MG/KG	MG/KG	UG/L	MG/KG	MG/KG
ACETONE		ND	ND	ND	50.0	500	50.0
1,1-DICHLOROETHENE		ND	ND	ND	5.0	50	5.0
METHYLENE CHLORIDE		ND	ND	ND	5.0	50	5.0
trans-1,2-DICHLOROETHENE		ND	ND	ND	5.0	50	5.0
1,1-DICHLOROETHANE		ND	ND	ND	5.0	50	5.0
2-BUTANONE (MEK)		ND	ND	ND	50.0	500	50.0
cis-1,2-DICHLOROETHENE		ND	ND	ND	5.0	50	5.0
2,2-DICHLOROPROPANE		ND	ND	ND	5.0	50	5.0
CHLOROFORM		ND	ND	ND	5.0	50	5.0
BROMOCHLOROMETHANE		ND	ND	ND	5.0	50	5.0
1,1,1-TRICHLOROETHANE		ND	ND	ND	5.0	50	5.0
1,2-DICHLOROETHANE		ND	ND	ND	5.0	50	5.0
BENZENE		ND	140	ND	5.0	50	5.0
1,1-DICHLOROPROPENE		ND	ND	ND	5.0	50	5.0
CARBONTETRACHLORIDE		ND	ND	ND	5.0	50	5.0
1,2-DICHLOROPROPANE		ND	ND	ND	5.0	50	5.0
TRICHLOROETHENE		ND	ND	ND	5.0	50	5.0

NOTES: ND = NOT DETECTED UG = MICROGRAM
QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYST

SUPERVISOR

INGE ANG

DATE

RUSS CHIN

DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

REQUESTER: AHMED E. HEGAB DATE SAMPLE RECEIVED: 1/29/98
SAMPLING LOCATION: POWERLINE OIL COMPANY DATE SAMPLE ANALYZED: 1/30/98, 2/2/98
12345 LAKELAND ROAD, SANTA FE SPRING
CA 90670
METHODS: EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

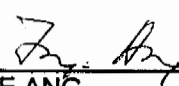
QC REPORT FOR SURROGATE SPIKE % RECOVERY

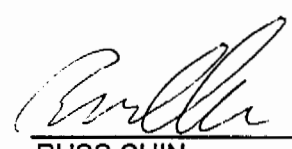
QC/SAMPLES / SAMPLE NO.	DIBROMOFLUOROETHANE			TOLUENE - D8			4 - BROMOFLUOROBENZENE		
	ADDED	RECOVERED		ADDED	RECOVERED		ADDED	RECOVERED	
	UG/KG	UG/KG	% REC	UG/KG	UG/KG	% REC	UG/KG	UG/KG	% REC
METHOD BLANK	20	20.4	102	20	21.2	106	20	19.3	97
MATRIX SPIKE	20	19.6	98	20	18.1	91	20	19.2	96
MATRIX SPIKE DUP.	20	19.3	96	20	20.4	102	20	19.3	97
SCL 16920	20	19.7	99	20	19.8	99	20	19.8	99
SCL 16921	20	19.2	96	20	18.7	94	20	19.4	97
SCL 16922	20	18.1	91	20	20.5	103	20	18	90
SCL 16923	20	18.7	94	20	20.4	102	20	18.4	92
SCL 16924	20	18.4	92	20	18.2	91	20	18.7	94
SCL 16926	20	19.7	99	20	20.1	101	20	18.1	91
CONTROL LIMIT FOR %REC	83.5 - 111			70.3 - 106			79.6 - 111		

NOTES:

ANALYST

SUPERVISOR


INGE ANG
3/25/98
DATE


RUSS CHIN
2/25/98
DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580 - 5795

REQUESTER: AHMED E. HEGAB

DATE SAMPLE RECEIVED: 1/29/98

SAMPLING LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD, SANTA FE SPRING
CA 90670

DATE SAMPLE ANALYZED: 1/30/98, 2/2/98

METHOD(S): EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

QC REPORT FOR SAMPLE DUPLICATE ANALYSIS

PERFORMED ON SCL NO.: 16924

☐ NOT ANALYZED (SEE NOTES)

TYPE OF MATRIX: SLUDGE

ANALYTE	SAMPLE	SAMPLE DUPLICATE	AVERAGE	REL % DIFF(R&D)	CONTROL LIMIT
	MG/KG	MG/KG	MG/KG	%	%
BENZENE	140	130	140	7.1	0-25
ETHYL BENZENE	140	140	140	0	0-25
M. & P.-XYLENES	440	480	460	8.7	0-25
O - XYLENE	190	220	210	14	0-25
NAPHTHALENE	150	160	160	6.3	0-25

QC REPORT FOR MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) PERCENT RECOVERY

MATRIX SPIKE PERFORMED ON 16926

☐ NOT ANALYZED SEE NOTES

TYPE OF MATRIX: SOIL

COMPOUND	AMOUNT OF ANALYTE IN SAMPLE	AMOUNT OF ANALYTE ADDED	MATRIX SPIKE		MATRIX SPIKE DUPLICATE		AVE % REC	CONTROL LIMITS FOR % REC	R % D BETWEEN MS/MSD	CONTROL LIMITS FOR RPD
			AMOUNT RECOVERED	%REC	AMOUNT RECOVERED	%REC				
	UG	UG	UG	%	UG	%	%	%	%	%
1,1-DICHLOROETHENE	<125	500	412	83	461	92	88	56.6-113	10	0-25
TRICHLOROETHENE	<125	500	372	75	395	79	77	57.7-117	5.2	0-25
CHLOROBENZENE	<125	500	455	91	476	95	93	58.3-119	4.3	0-25
TOLUENE	<125	500	429	86	447	89	88	62.0-120	3.4	0-25
BENZENE	<125	500	458	92	484	97	95	61.3-114	5.2	0-25

NOTES: NDY = NOT DETERMINED YET.

ANALYST

SUPERVISOR

INGE ANG

DATE

RUSS CHIN

DATE

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR SCL SAMPLE(S) 16928
SUPPLEMENTAL EPA 8260 ANALYSIS WAS REQUESTED ON 3/3/98
2. SAMPLES WERE COLLECTED ON 1/29/98 AT POWERLINE OIL COMPANY
3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS AHMED E. HEGAB
4. SAMPLES WERE:

RECEIVED ON 1/29/98 BY HAZARDOUS MATERIALS LABORATORY-SO. CAL

EXTRACTED AND
ANALYZED ON 3/6/98 BY EPA METHOD 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

DATA PACKAGE WAS COMPLETED ON 3/9/98
5. DURING THE COURSE OF THESE ANALYSES, NO PROBLEM WAS ENCOUNTERED.
6. QC PARAMETERS/INDICATORS WERE WITHIN CONTROL LIMITS.
7. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE MET.
8. RECOMMENDED SAMPLE HOLDING TIME WAS EXCEEDED.

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580 - 5795

REQUESTER: AHMED E. HEGAB

DATE SAMPLE RECEIVED: 1/29/98

SAMPLING LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD
SANTA FE SPRINGS, CA 90670

DATE SAMPLE ANALYZED: 3/6/98

METHOD(S): EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

QC REPORT FOR SAMPLE DUPLICATE ANALYSIS

PERFORMED ON SCL NO.: 16928

☐ NOT ANALYZED (SEE NOTES)

TYPE OF MATRIX: SLUDGE

ANALYTE	SAMPLE	SAMPLE DUPLICATE	AVERAGE	REL % DIFF(R&D)	CONTROL LIMIT
	MG/KG	MG/KG	MG/KG	%	%
BENZENE	110	130	120	17	0-25
ETHYL BENZENE	180	210	200	15	0-25
M. & P -XYLENES	490	570	530	15	0-25
O-XYLENE	240	270	260	12	0-25

QC REPORT FOR MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) PERCENT RECOVERY

MATRIX SPIKE PERFORMED ON

☒ NOT ANALYZED SEE NOTES

TYPE OF MATRIX

COMPOUND	AMOUNT OF ANALYTE IN SAMPLE	AMOUNT OF ANALYTE ADDED	MATRIX SPIKE		MATRIX SPIKE DUPLICATE		AVE % REC	CONTROL LIMITS FOR % REC	R % D BETWEEN MS/MSD	CONTROL LIMITS FOR RPD
			AMOUNT RECOVERED	%REC	AMOUNT RECOVERED	%REC				
1,1-DICHLOROETHENE										
TRICHLOROETHENE										
CHLOROBENZENE										
TOLUENE										
BENZENE										

NOTES: NDY = NOT DETERMINED YET.

X = MS/MSD ANALYSIS WAS NOT APPLICABLE DUE TO HIGH LEVELS OF ANALYTES PRESENT IN THE SAMPLE

ANALYST

SUPERVISOR

INGE ANG

DATE

RUSS CHIN

DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

REQUESTER: AHMED E. HEGAB DATE SAMPLE RECEIVED: 1/29/98
SAMPLING LOCATION: POWERLINE OIL COMPANY DATE SAMPLE ANALYZED: 3/6/98
12345 LAKELAND ROAD
SANTA FE SPRINGS, CA 90670
METHODS: EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

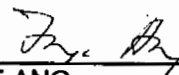
QC REPORT FOR SURROGATE SPIKE % RECOVERY

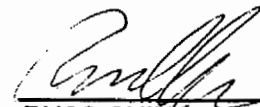
QC/SAMPLES / SAMPLE NO.	DIBROMOFLUOROETHANE			TOLUENE - D8			4 - BROMOFLUOROBENZENE		
	ADDED	RECOVERED		ADDED	RECOVERED		ADDED	RECOVERED	
	UG/KG	UG/KG	% REC	UG/KG	UG/KG	% REC	UG/KG	UG/KG	% REC
METHOD BLANK	20	21.3	107	20	17.4	87	20	17.2	86
SCL 16928	20	19.3	97	20	18.2	91	20	18.4	92
SCL 16928 DUP.	20	19.5	98	20	18.7	94	20	18.4	92
CONTROL LIMIT FOR %REC	74.2 - 101			74.6 - 127			72.3 - 121		

NOTES:

ANALYST

SUPERVISOR


INGE ANG
3/11/98
DATE


RUSS CHIN
3/11/98
DATE

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY-SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

REQUESTER: AHMED E. HEGAB SCL NO. 16928
SAMPLE LOCATION: POWERLINE OIL COMPANY DATE REPORTED: 3/9/98
12345 LAKELAND ROAD
SANTA FE SPRINGS, CA 90670
METHOD(S): EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

VOCs BY GC/MS


ANALYTE	SCL NO.		16928				QUANTITATION LIMIT				
	COL. NO.	METHOD	DOC 9				METHOD BLANK	16928			
		BLANK	128A								
	MATRIX	WATER	SLUDGE								
	UNIT	UG/L	MG/KG				UG/L	MG/KG			
ACETONE		ND	ND				50.0	650			
1,1-DICHLOROETHENE		ND	ND				5.0	65			
METHYLENE CHLORIDE		ND	ND				5.0	65			
trans-1,2-DICHLOROETHENE		ND	ND				5.0	65			
1,1-DICHLOROETHANE		ND	ND				5.0	65			
2-BUTANONE (MEK)		ND	ND				5.0	650			
cis-1,2-DICHLOROETHENE		ND	ND				5.0	65			
2,2-DICHLOROPROPANE		ND	ND				5.0	65			
CHLOROFORM		ND	ND				5.0	65			
BROMOCHLOROMETHANE		ND	ND				5.0	65			
1,1,1-TRICHLOROETHANE		ND	ND				5.0	65			
1,2-DICHLOROETHANE		ND	ND				5.0	65			
BENZENE		ND	120				5.0	65			
1,1-DICHLOROPROPENE		ND	ND				5.0	65			
CARBONTETRACHLORIDE		ND	ND				5.0	65			
1,2-DICHLOROPROPANE		ND	ND				5.0	65			
TRICHLOROETHENE		ND	ND				5.0	65			

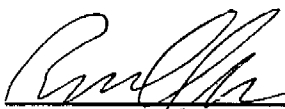
NOTES: ND = NOT DETECTED UG = MICROGRAM MG = MILLIGRAM
QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.
** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYST

SUPERVISOR


INGE ANG 3/11/98
DATE


RUSS CHIN 3/11/98
DATE

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY-SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

COLLECTOR'S NAME AHMED E. HEGAB

SCL NO: 16928

SAMPLE LOCATION: POWERLINE OIL COMPNY
12345 LAKELAND RD.,
SANTA FE SPRINGS, CA 90670

DATE REPORTED: 3/6/98

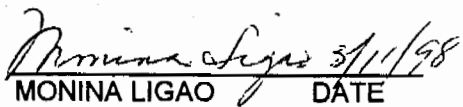
METHOD(S): EPA 1020

SETAFLASH CLOSED CUP METHOD
FOR IGNITABILITY

FLASH POINT

ANALYSIS	SCL NO.	16928					
	COL. NO.	POC 9 128A					
	MATRIX	SLUDGE					
	UNIT	°F					
FLASH POINT		> 140					

ANALYST:

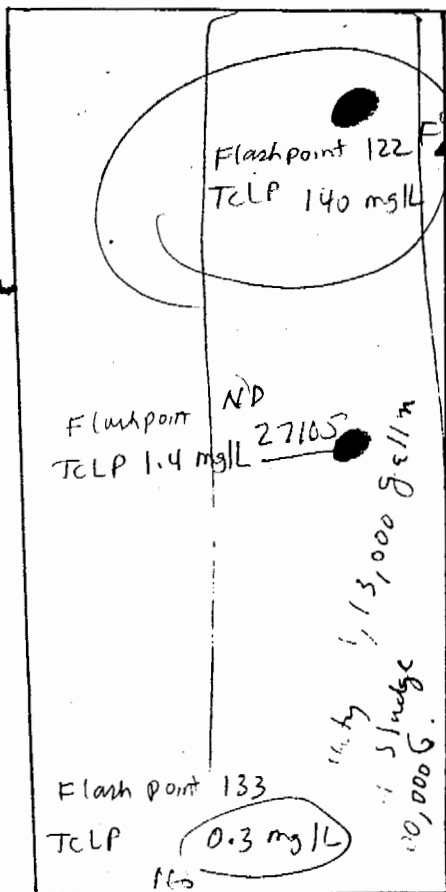

MONINA LIGAO DATE

SUPERVISOR


RUSS CHIN

Tanks Samples & Chemical anal. results

Tank 27105



Flash point 122°F < 140°F

TCLP for VOC (benzene) 140 mg/L (Limit)

No Flash point > 140°F

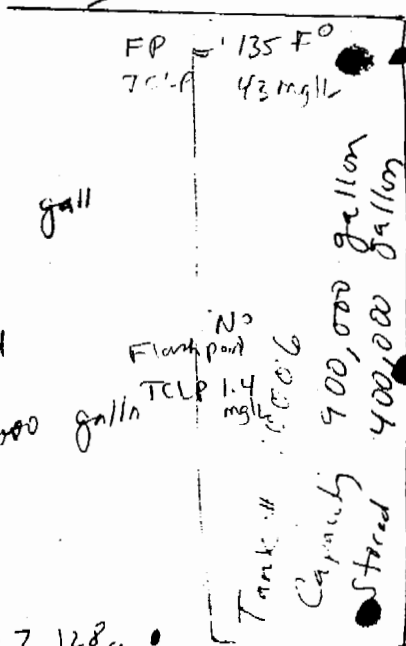
POC-9-128 A Flash point > 140

TCLP for VOC benzene 1.4 mg/L (Limit 0.5 mg/L)

Flash point 133°F < 140°F

POC-3-128 A

Tank 10006



Flash point 135°F < 140°F

TCLP for VOC (Benzene) 43 mg/L (0.5 mg/L Limit)

No (Flash point ND)

TCLP for VOC Benzene = 1.4 mg/L (Limit 0.5 mg/L)

Flash point 128°F (Limit 140°F)

TCLP for VOC Benzene 1.6 mg/L (Limit 0.5 mg/L for benzene)

EXHIBIT A

CHRONOLOGY OF EVENTS POWERINE OIL COMPANY

<u>Time Period</u>	<u>Event</u>
1936	Company is established as Rothschild Oil Company.
1982	\$230 million refinery Modernization Program completed.
March 1984	Bankruptcy filing (Chapter 13); refinery shuts down and business activities are minimal.
September 1986	Company emerges from bankruptcy and under new ownership of a European businessman.
March - July 1987	Refinery is restarted and business is re-established. Metallgesellschaft Corp. (MG) becomes involved in financing Powerine business activities.
March 1993	MG acquires an option to purchase (own) Powerine.
October 1, 1993	MG sells option to Castle Energy Corporation (CEC) which was 49% owned by MG. CEC exercises option and acquires Powerine. Powerine enters into a long term (4 years) Offtake Agreement with MG who agrees to purchase all of Powerine's refinery production.
December 1993	Rumors surface about MG's financial difficulty due to huge trading position in futures contracts on NYMEX. MG President resigns and an internal investigation of MG's US operations by its European parent corporation are initiated.
January - March 1994	<u>MG financial situation becomes public knowledge and MG appears to be on brink of bankruptcy.</u>
April 1994	MG banks agree to recapitalization plan which saves MG from bankruptcy. CEC and Powerine are notified by MG of their intent to terminate all relationships between MG and CEC/Powerine.
August 1994	Tentative agreement reached on <u>ending MG and CEC/Powerine business relationship.</u>
October 1994	Agreement is finalized with MG forgiving debt of CEC and subsidiaries of over \$321 million, returning CEC stock and other concessions in exchange for MG ending business obligations to CEC/Powerine in early 1995. CEC realizes \$391 million gain which has significant tax consequences for CEC.

<u>Time Period</u>	<u>Event</u>
October 1994 (cont'd)	CEC initiates effort to sell Powerine to raise funds to satisfy tax obligation or, if sales price is very low, the corresponding "loss" would offset the capital gain and minimize tax liability.
July 1995	Powerine shuts down refinery and terminates the majority of its work force when CEC's efforts to sell Powerine as an operating refinery business are not successful. In addition, Powerine's operating losses depleted the company's ability to stay in business and CEC is unable to put any money into Powerine.
August 1995	CEC had received and was evaluating two competing proposals for Powerine. One party, Kenyen Projects Ltd., was interested in buying the refinery equipment. Energy Merchant Corp. was interested in buying the company (stock purchase).
September 1995	CEC directs Powerine to sell the refinery equipment to Kenyen Projects Ltd. who intends to dismantle the refinery and ship it to India. Kenyen puts up \$3 million earnest money deposit with obligation to pay three quarterly installments of \$7 million each beginning April 30, 1996.
December 1995	CEC and Powerine's management came to the view that Kenyen would not be able to conclude the equipment purchase transaction due to the changing political climate in India. India was "closing the door" on business development by western companies, which was causing world financial institutions to back away from financing projects like the "Powerine refinery" project.
January 1996	CEC agrees to sell Powerine to Energy Merchant Corp. (EMC) whose interest is to reacquire refinery equipment, restart the refinery and re-establish Powerine as a refinery business.
February 1996	Powerine (under the ownership of EMC) reacquires refinery equipment from Kenyen by forgiving Kenyen's obligation to pay Powerine the \$21 million beginning April 30, 1996. Kenyen agrees to allow the \$3 million earnest money deposit to remain with Powerine until June 1997.
March 1996	Effort to recapitalize Powerine begins with Offering Memorandum (Prospectus) sent to numerous equity investors and mortgage lenders. Company seeks to raise \$50 million for a full refinery restart and completion of refinery modification projects.
May 1996	Powerine restarts minimum processing activity at the refinery with a Butane Isomerization Unit and various utility systems.

<u>Time Period</u>	<u>Event</u>
July 1996	Powerine receives a commitment for equity investment in Powerine subject to satisfaction on environmental exposure and other due diligence.
August 9, 1996	Powerine enters into a processing agreement with a large Los Angeles refiner. Powerine will process crude oil into intermediate feedstocks for a fee. The agreement is contingent upon Powerine obtaining financing to restart a portion of the refinery.
August 21, 1996	Due to deteriorating market conditions, the equity investment committed to in July, 1996 did not proceed. Powerine receives commitment for startup financing from an entity headquartered in Germany. The anticipated funding date is October 8, 1996.
October 8, 1996	The entity headquartered in Germany failed to provide Powerine financing. Powerine pursues startup financing from an entity headquartered in the United States.
November 8, 1996	The entity headquartered in the United States failed to provide Powerine financing.
November 13-15, 1996	Powerine lays off an additional 35 people. Remaining personnel include mandatory round the clock coverage to provide security at the refinery and Long Beach Marine Terminal and other essential positions. Powerine's current priority is to generate cash flow to fund the refinery startup by selling assets such as the land south of the refinery and north of the coke storage barn. The proceeds from the land sale will be used to restart the refinery. Powerine's existing obligations will be met from revenue generated by refinery operations.
March 14, 1997	Powerine and the purchaser sign the Purchase and Sale Agreement for the Lakeland Property specifying March 15, 1997 as the closing date and obtaining a No Further Action letter from the Regional Water Quality Control Board ("RWQCB") as a requirement to close.
March-May 1997	Powerine demolishes its 28,000 square foot main office building and warehouse, truck fuel loading racks, tanks and associated scalehouse and remediates soil contamination as required the RWQCB.
May 12, 1997	The purchaser notifies Powerine it will not close escrow on the Lakeland Property without a covenant not to sue from the RWQCB.

<u>Time Period</u>	<u>Event</u>
May 14, 1997	The RWQCB issues the No Further Action Letter for the Lakeland Property.
May and June, 1997	Purchaser pursues an insurance policy to address his environmental issues. Purchaser does not find an appropriate insurance policy
August 26, 1997	Powerine obtains a Covenant Not to Sue any future owner of the Lakeland Property from the RWQCB.
September 19, 1997	Powerine closes the Lakeland Property sale. Due to the delay in closing the transaction, the proceeds from the sale are significantly attached by Powerine's creditors.
October 29, 1997	Powerine enters into an agreement with a company who plans to dismantle the refinery and reassemble it in Canada.
February 28, 1998	Powerine terminates the agreement with the dismantler.
March 19, 1998	Powerine executes an agreement with an investor who plans to restart the refinery.

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY-SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

COLLECTOR'S NAME AHMED E. HEGAB

SCL NO: 16920-16924,16926

SAMPLE LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD,
SANTA FE SPRINGS, CA 90670

DATE REPORTED: 02/10/98

METHOD(S): EPA 1020 SETAFLASH CLOSED - CUP METHOD FOR IGNITABILITY

FLASH POINT

ANALYSIS	SCL NO.	16920	16921	16922	16923	16924	16926
	COL. NO.	POC-1 128A	POC-2 128A	POC-3 128A	POC-4 128A	POC-5 128A	POC-7 128A
	MATRIX	OIL	WATER	SLUDGE	OIL	SLUDGE	SOIL
	UNIT	°F	°F	°F	°F	°F	°F
FLASH POINT		122	ND	133	135	128	124

NOTE:

ANALYST:

Faina Goretsky 246-98
FAINA GORETSKY DATE

SUPERVISOR

Russ Chin 2/16/98
RUSS CHIN DATE

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

APR 08 1998

1

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR SCL SAMPLE(S) 16920 TO 16924, 16928
SUPPLEMENTAL TCLP-VOC ANALYSIS WAS REQUESTED ON 03/03/98
2. SAMPLES WERE COLLECTED ON 1/28/98 AT POWERLINE OIL COMPANY
3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS AHMED E. HEGAB
4. SAMPLES WERE: (TCLP EXTRACTS)

RECEIVED ON 3/17/98 BY HAZARDOUS MATERIALS LABORATORY-SO. CAL

ANALYZED ON 3/26/98 - 3/27/98 BY EPA METHOD 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

DATA PACKAGE WAS COMPLETED ON 3/31/98
5. DURING THE COURSE OF THESE ANALYSES, NO PROBLEM WAS ENCOUNTERED.
6. QC PARAMETERS/INDICATORS WERE WITHIN CONTROL LIMITS.
7. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE MET.
8. RECOMMENDED SAMPLE HOLDING TIME WAS EXCEEDED.

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

INDEX

EPA 8260 FOR SAMPLE (S) 16920 - 16924, 16928

	PAGE
1. CASE NARRATIVE	1
2. INDEX	2
3. HAZARDOUS MATERIALS SAMPLE ANALYSIS REQUEST FORMS	3 - 4
4. LABORATORY ANALYTICAL REPORT (S)	5 - 6
5. QC REPORT FOR	
a. Sample Duplicate Analysis	7
b. Matrix Spike/Matrix Spike Duplicate Analysis	
6. QC REPORT FOR SURROGATE SPIKE % RECOVERY	8

TOTAL PAGES = 8

HAZARDOUS MATERIALS
SAMPLE ANALYSIS REQUEST

1. Authorization Number

SCA 3482

HML No. 16920
To 16929

2. Page

1 of 2

3. Requester: Ahmed E. Hegab 4. Phone (8) 667-2902
Address (To Receive Results):5. Priority Level: 1 2 3
a. Authorized by

6. Date Sampled 1-27-1998 7. Time Sampled • Hours

8. Codes (fill in all applicable codes)

9. Activity: ☒ SEB ☐ SMB ☐ FPB ☐ FMB ☐ HQ ☐ OTHER

10. SAMPLING LOCATION

C A D O O 8 3 8 3 2 9 1

a. EPA ID No.

b. Site Powerline Oil Company

c. Address 12359 Lake Road Santa Fe Spring Ca. 90245
Number Street City Zip

a. STC	3	0	3	0
b. Region	0	3		
c. INDEX	6	3	1	0
d. PCA	3	7	3	2
e. MPC				
f. SITE	3	0	0	1
g. County	1	9		

11. SAMPLES

a. ID	b. Collector's No.	c. Lab No.	d. Type	e. Type	f. Size	g. Field Information
A	POC-1-128A	16920	Sludge	Glass	16 oz	Top of Tank 27105 (Hydrocarbon)
B	POC-2-128A	16921	Sludge	Glass	16 oz	oily Sludge 20 ft Tank 10006
C	POC-3-128A	16922	Sludge	Glass	16 oz	Bottom of Tank 27105 (Sludge)
D	POC-4-128A	16923	oily liquid	Glass	16 oz	Top Tank 10006
E	POC-5-128A	16924	Sludge	Glass	16 oz	Bottom Tank 10006
F	POC-6-128A	16925	Soil Sample	Glass	16 oz	Soil 16 ft north child
G	POC-7-128A	16926	Soil Sample	"	16 oz	around tank 10006
H	POC-8-128A	16927	Sludge	"	16 oz	bln Tank 35 & 3072
I	POC-9-128A		Sludge	"		under Tank 2705
L	POC-10-128A		Sludge	"		under tank 1002

12. ANALYSIS REQUESTED

f. ☐ VOA-8020g. ☐ VOA-H/Sh. ☐ VOA-8240i. ☒ VOA-8260 for A, B, C, D, E, Gj. ☒ SVO-8270k. ☒ Diesel/
Gasolinel. ☐ Flash
Pointm. ☐ C1-Pes-
ticidesn. ☐ OP-Pes-
ticideso. ☐p. ☐q. ☐

13. SPECIAL REMARKS:

14. SUPPLEMENTAL
REQUESTS

Initials

Date

15. CHAIN OF CUSTODY

a. Ahmed E. Hegab

Signature

HML Lab

Name/Title

1/28/98 - 1/28/98

Inclusive Dates

b. Donald B. Boring

Signature

DTSC Lab

Name/Title

1/28/98 - 1/28/98

Inclusive Dates

c. Janice W. Kakuwa

Signature

Janice W. Kakuwa / PHC III

Name/Title

1/29/98 - 3/9/98

Inclusive Dates

d. _____

Signature

Name/Title

1/1/98 - 1/1/98

Inclusive Dates

16. LAB REMARKS:

HML: TCLP-8260 on 16920 to 16924 & 16928

3/9/98

HAZARDOUS MATERIALS SAMPLE ANALYSIS REQUEST

1. Authorization Number

HML No. 16920.
To 16929

2. Page 4
2 of 2

3. Requestor: Ahmed E. Hegab
4. Phone: (8) 667-2902
5. Address (To Receive Results):
6. FAX ()

7. TAT Level: 1
(circle one)
Authorized By
2 3 4

8. Date Sampled 1/27/98

9. Codes (fill in all applicable codes)

10. Activity: ☐ SCD ☐ SRPD ☐ SMB ☐ FPB ☐ SPPT ☐ ER/CL ☐ Others

a. Office 03
b. INDEX 6310
c. PCA 37322
d. MPC
e. SITE 30012133
f. County

11. SAMPLING LOCATION CAD008383291

a. EPA ID No.

b. Site Powerline Oil Company

c. Address Number Street City ZIP

12. SAMPLES

a. ID	b. Collector's No.	c. Lab No.	d. Type	e. Type	f. Size	g. Field Information
A	D100 1/12/98	16928	Sludge	Glass	16oz.	Middle Tank 2705
B	D100 1/12/98	16929	Sludge	Glass	16oz.	Under Tank 1002
C						
D						
E						
F						
G						
H						

13. ANALYSIS REQUESTED

a. ☒ pH A+B
b. ☒ Metal Scan A+B
c. ☐ Metals (Spec)
d. ☐ W.E.T.
e. ☒ Flash Point A
f. ☐ PAHs - 8310
g. ☐ PCBs
h. ☐ TPH
i. ☐ Gasoline
j. ☐ Diesel
k. ☐ Cl - Pest
l. ☐ OP - Pest
m. ☐ VOA - 8021
n. ☒ VOA - 8260 A
o. ☐ SVO - 8270
p. ☐ TCLP - (specify)
q. ☐

14. SPECIAL REMARKS/ANALYSIS OBJECTIVE:

15. SUPPLEMENTAL REQUESTS

Initials
Date

16. CHAIN OF CUSTODY

a. Signature	Name/Title	Inclusive Dates
b. Signature	Name/Title	Inclusive Dates
c. Signature	Name/Title	Inclusive Dates
d. Signature	Name/Title	Inclusive Dates

17. LAB REMARKS:

REQUESTER: AHMED E. HEGAB SCL NO. 16920 - 16923
SAMPLE LOCATION: POWERLINE OIL COMPANY DATE REPORTED: 3/31/98
12345 LAKELAND ROAD
SANTA FE SPRING, CA 90670
METHOD(S): EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS MODIFIED FOR TCLP

TCLP VOCs BY GC/MS

ANALYTE	SCL NO.		16920	16921	16922	16923	QUANTITATION LIMIT				
	COL. NO.	METHOD	POC-1- 128A	POC-2- 128A	POC-3 128A	POC-4 128A	METHOD BLANK	16920	16921	16922	16923
		BLANK									
	MATRIX	WATER	TCLP EXTRACT	TCLP EXTRACT	TCLP EXTRACT	TCLP EXTRACT					
	UNIT	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
BENZENE		ND	140	1.4	0.3	43	0.005	47.8	0.63	0.13	11.2
VINYL CHLORIDE		ND	ND	ND	ND	ND	0.005	47.8	0.63	0.13	11.2
CHLOROFORM		ND	ND	ND	ND	ND	0.005	47.8	0.63	0.13	11.2
2-BUTANONE (MEK)		ND	ND	ND	ND	ND	0.05	47.8	6.3	1.3	11.2
1,2-DICHLORO ETHANE		ND	ND	ND	ND	ND	0.005	47.8	0.63	0.13	11.2
TRICHLOROETHENE		ND	ND	ND	ND	ND	0.005	47.8	0.63	0.13	11.2
TETRACHLOROETHENE		ND	ND	ND	ND	ND	0.005	47.8	0.63	0.13	11.2
CHLOROBENZENE		ND	ND	ND	ND	ND	0.005	47.8	0.63	0.13	11.2
1,1-DICHLOROETHENE		ND	ND	ND	ND	ND	0.005	47.8	0.63	0.13	11.2
1,4-DICHLOROETHENE		ND	ND	ND	ND	ND	0.005	47.8	0.63	0.13	11.2
CARBON TETRACHLORIDE		ND	ND	ND	ND	ND	0.005	47.8	0.63	0.13	11.2
TENTATIVELY IDENTIFIED COMPOUNDS:											
SCL 16920,16923: ALIPH. HYDROCARBONS C5-C10, C13, ALKYL CYCLOPENTANES, ALKYL CYCLOHEXANES, ALKYL BENZENES, INDAN, METHYL & DIMETHYL INDANS, NAPHTHALENE, DECAHYDRO NAPHTHALENE, DECAHYDRO METHYL NAPHTHALENE, TETRAHYDRO-METHYL NAPHTHALENE.											
SCL 16921: MTBE, ACETONE & ALKYL BENZENES.											
SCL 16922: MTBE, ALKYL BENZENES, INDAN, METHYL & DIMETHYL INDANS, NAPHTHALENE, TETRAHYDRO METHYL NAPHTHALENE.											

NOTES: ND = NOT DETECTED UG = MICROGRAM MG = MILLIGRAM
QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.
** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYST

SUPERVISOR

[Signature] 4/6/98
INGE ANG DATE

[Signature] 4/6/98
RUSS CHIN DATE

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY-SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

6

REQUESTER: AHMED E. HEGAB SCL NO. A6924,16928
SAMPLE LOCATION: POWERLINE OIL COMPANY DATE REPORTED: 3/31/98
12345 LAKELAND ROAD
SANTA FE SPRING, CA. 90670
METHOD(S): EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS MODIFIED FOR TCLP

TCLP VOCs BY GC/MS

								QUANTITATION LIMIT			
	SCL NO.		16924	16928	METHOD	STORAGE		METHOD BLANK	16924 16928	METHOD BLANK	STORAGE BLANK
	COL. NO.	METHOD BLANK	POC-5- 128A	DOC-9- 128A	BLANK	BLANK					
	MATRIX	WATER	TCLP EXTRACT	TCLP EXTRACT							
ANALYTE	UNIT	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	MG/L	MG/L
BENZENE		ND	1.6	1.4	ND	ND		0.005	0.63	0.005	0.005
VINYL CHLORIDE		ND	ND	ND	ND	ND		0.005	0.63	0.005	0.005
CHLOROFORM		ND	ND	ND	ND	ND		0.005	0.63	0.005	0.005
2 ANONE (MEK)		ND	ND	ND	ND	ND		0.05	6.3	0.05	0.05
1,2-DICHLOROETHANE		ND	ND	ND	ND	ND		0.005	0.63	0.005	0.005
TRICHLOROETHENE		ND	ND	ND	ND	ND		0.005	0.63	0.005	0.005
TETRACHLOROETHENE		ND	ND	ND	ND	ND		0.005	0.63	0.005	0.005
CHLOROBENZENE		ND	ND	ND	ND	ND		0.005	0.63	0.005	0.005
1,1-DICHLOROETHENE		ND	ND	ND	ND	ND		0.005	0.63	0.005	0.005
1,4-DICHLOROBENZENE		ND	ND	ND	ND	ND		0.005	0.63	0.005	0.005
CARBON TETRACHLORIDE		ND	ND	ND	ND	ND		0.005	0.63	0.005	0.005

TENTATIVELY IDENTIFIED COMPOUNDS:

SCL 16924: ALIPH. HYDROCARBONS C5, C9, MTBE, ALKYL BENZENES, INDAN & NAPHTHALENE.

SCL 16928: MTBE, ALKYL BENZENES, INDAN & NAPHTHALENE.

INDAN, METHYL & DIMETHYL INDANS, NAPHTHALENE, DECAHYDRO NAPHTHALENE.

SCL 16924: ALIPH. HYDROCARBONS: C5, C9, ALKYL BENZENES, MTBE, INDAN, NAPHTHALENE

SCL 16928: ALKYL BENZENES, INDAN, NAPHTHALENE.

NOTES: ND = NOT DETECTED UG = MICROGRAM MG = MILLIGRAM
QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)
* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.
~ = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYST

SUPERVISOR

[Signature]
INGE ANG
4/6/98
DATE

[Signature]
RUSS CHIN
4/6/98
DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580 - 5795

7

REQUESTER: AHMED E. HEGAB
DATE SAMPLE RECEIVED: 1/28/98
SAMPLING LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD
DATE SAMPLE ANALYZED: 3/26/98 - 3/27/98
SANTA FE SPRING, CA 90670
METHOD(S): EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS MODIFIED FOR TCLP

QC REPORT FOR SAMPLE DUPLICATE ANALYSIS

PERFORMED ON SCL NO.: 16924 ☐ NOT ANALYZED (SEE NOTES)
TYPE OF MATRIX: TCLP EXTRACTS

	SAMPLE	SAMPLE DUPLICATE	AVERAGE	REL % DIFF(R&D)	CONTROL LIMIT
ANALYTE	MG/L	MG/L	MG/L	%	%
BENZENE	1.5	1.7	1.6	5.9	0-25

**QC REPORT FOR
MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) PERCENT RECOVERY**

MATRIX SPIKE PERFORMED ON ☒ NOT ANALYZED (SEE NOTES)

TYPE OF MATRIX

COMPOUND	AMOUNT OF ANALYTE IN SAMPLE MG/KG	AMOUNT OF ANALYTE ADDED MG/KG	MATRIX SPIKE		MATRIX SPIKE DUPLICATE		AVE % REC	CONTROL LIMITS FOR % REC	R % D BETWEEN MS/MSD	CONTROL LIMITS FOR RPD
			AMOUNT RECOVERED MG/KG	% REC	AMOUNT RECOVERED MG/KG	% REC				
BENZENE										
VINYL CHLORIDE										
CHLOROFORM										
2-BUTANONE (MEK)										
1,2-DICHLOROETHENE										
TRICHLOROETHENE										
TETRACHLOROETHENE										
CHLOROBENZENE										
1,1-DICHLOROBENZENE										
1,4-DICHLOROBENZENE										
CARBONTETRACHLORIDE										

NOTES: X = MS/MSD ANALYSIS WAS NOT APPLICABLE

ANALYST

Inge Ang 4/6/98
INGE ANG DATE

SUPERVISOR

Russ Chin 4/6/98
RUSS CHIN DATE

8

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

REQUESTER: AHMED E. HEGAB DATE SAMPLE RECEIVED: 01/28/98
SAMPLING LOCATION: POWERLINE OIL COMPANY DATE SAMPLE ANALYZED: 3/26/98-3/27/98
12345 LAKELAND ROAD
SANTA FE SPRING, CA 90670
METHOD(S): EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS MODIFIED FOR TCLP

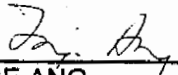
QC REPORT FOR SURROGATE SPIKE % RECOVERY


QC/SAMPLES / SAMPLE NO.	DIBROMOFLUOROETHANE			TOLUENE - D8			4 - BROMOFLUOROBENZENE		
	ADDED	RECOVERED		ADDED	RECOVERED		ADDED	RECOVERED	
	UG/KG	UG/KG	% REC	UG/KG	UG/KG	% REC	UG/KG	UG/KG	% REC
LABORATORY BLANK	20	20.5	103	20	18.1	91	20	19.4	97
METHOD BLANK	20	19.4	97	20	15.9	80	20	17.6	88
STORAGE BLANK	20	20	100	20	17.5	88	20	18.5	93
SCL 16920 TCLP EXTRACT	20	19.8	99	20	18.9	95	20	18.5	93
SCL 16920 PRIM. EXTRACT	20	18.2	91	20	19.6	98	20	19.5	98
SCL 16921 TCLP EXTRACT	20	19.7	99	20	18	90	20	18	90
SCL 16922 TCLP EXTRACT	20	20.2	101	20	18.4	92	20	18.1	91
SCL 16922 PRIM EXTRACT	20	20.4	102	20	16.3	82	20	17.2	86
SCL 16923 TCLP EXTRACT	20	19.3	97	20	19.6	98	20	17.7	89
SCL 16923 PRIM EXTRACT	20	17.8	89	20	21.1	106	20	19.5	98
SCL 16924 TCLP EXTRACT	20	19.4	97	20	19.2	96	20	17.3	87
SCL 16928 TCLP EXTRACT	20	20	100	20	18.6	93	20	18.3	92
SCL 16928 PRIM EXTRACT	20	19.6	98	20	18.5	93	20	18.1	91
CONTROL LIMIT FOR %REC	NDY			NDY			NDY		

NOTES: NDY = NOT DETERMINED YET

ANALYST

SUPERVISOR


INGE ANG
4/6/98
DATE


RUSS CHIN
4/6/98
DATE

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY-SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

REQUESTER: AHMED E. HEGAB SCL NO. 16928
SAMPLE LOCATION: POWERLINE OIL COMPANY DATE REPORTED: 3/9/98
12345 LAKELAND ROAD
SANTA FE SPRINGS, CA 90670
METHOD(S): EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

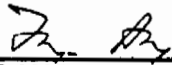
VOCs BY GC/MS

ANALYTE	SCL NO.		16928				QUANTITATION LIMIT				
	COL. NO.	METHOD	DOC 9				METHOD BLANK	16928			
		BLANK	128A								
	MATRIX	WATER	SLUDGE								
	UNIT	UG/L	MG/KG				UG/L	MG/KG			
ACETONE		ND	ND				50.0	650			
1,1-DICHLOROETHENE		ND	ND				5.0	65			
METHYLENE CHLORIDE		ND	ND				5.0	65			
trans-1,2-DICHLOROETHENE		ND	ND				5.0	65			
1,1-DICHLOROETHANE		ND	ND				5.0	65			
2-BUTANONE (MEK)		ND	ND				5.0	650			
cis-1,2-DICHLOROETHENE		ND	ND				5.0	65			
2,2-DICHLOROPROPANE		ND	ND				5.0	65			
CHLOROFORM		ND	ND				5.0	65			
BROMOCHLOROMETHANE		ND	ND				5.0	65			
1,1,1-TRICHLOROETHANE		ND	ND				5.0	65			
1,2 DICHLOROETHANE		ND	ND				5.0	65			
BENZENE		ND	120				5.0	65			
1,1-DICHLOROPROPENE		ND	ND				5.0	65			
CARBONTETRACHLORIDE		ND	ND				5.0	65			
1,2-DICHLOROPROPANE		ND	ND				5.0	65			
TRICHLOROETHENE		ND	ND				5.0	65			

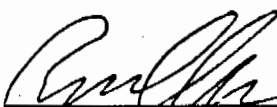
NOTES: ND = NOT DETECTED UG = MICROGRAM MG = MILLIGRAM
QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.
** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYST

 3/11/98
INGE ANG DATE

SUPERVISOR

 3/11/98
RUSS CHIN DATE

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

APR 07 1998

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR SCL SAMPLE(S) 16920 - 16924, 16928
2. SAMPLES WERE COLLECTED ON 1/27/98 AT POWERLINE OIL COMPANY
3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS AHMED E. HEGAB
4. SAMPLES WERE:

RECEIVED ON 1/29/98 BY HAZARDOUS MATERIALS LABORATORY-SO. CAL

EXTRACTED ON 02/05/98 - 02/09/98 BY SCL METHOD 815 GC/FID FOR TPH GASOLINE RANGE ORGANICS

ANALYZED ON 02/04/95 - 02/09/98 BY SCL METHOD 815

NOTE: SCL=HAZARDOUS MATERIALS LABORATORY-SO.CAL

DATA PACKAGE WAS COMPLETED ON 2/11/98

5. DURING THE COURSE OF THESE ANALYSES, NO PROBLEM WAS ENCOUNTERED.
6. QC PARAMETERS/INDICATORS WERE WITHIN CONTROL LIMITS.
7. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE MET.
8. SAMPLE HOLDING TIME WAS MET.

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY-SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

REQUESTER: AHMED E. HEGAB

SCL NO 16920 - 16924

SAMPLE LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD,
SANTA FE SPRING, CA.90670

DATE REPORTED: 2/11/98

METHOD(S): SCL 815 GC/FID FOR TPH-GASOLINE RANGE ORGANICS (GROs)

GASOLINE - GROs ANALYSIS

							QUANTITATION LIMIT				
ANALYTE	SCL NO.	16920	16921	16922	16923	16924	16920	16921	16922	16923	16924
	COL. NO.	POC-1- 128A	POC-2- 128A	POC-3- 128A	POC-4- 128A	POC-5- 128A					
	MATRIX	OIL	OILY WATER	OILY WATER	OIL	SLUDGE					
	UNIT	MG/KG	MG/L	MG/L	MG/KG	MG/KG	MG/KG	MG/L	MG/L	MG/KG	MG/KG
GASOLINE-GROs		62,000	29	11	28,000	820	4500	1.8	0.9	900	45

NOTES: ND = NOT DETECTED

QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

SAMPLE PREPARATION:

ANALYST:

SUPERVISOR

Lucia Yap 3/10/98
LUCIA YAP DATE

Lucia Yap 3/10/98
LUCIA YAP DATE

Russ Chin 3/10/98
RUSS CHIN DATE

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY-SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

REQUESTER: AHMED E. HEGAB

SCL NO 16926

SAMPLE LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD,
SANTA FE SPRING, CA.90670

DATE REPORTED: 2/11/98

METHOD(S): SCL 815 GC/FID FOR TPH-GASOLINE RANGE ORGANICS (GROs)

GASOLINE - GROs

						QUANTITATION LIMIT				
ANALYTE	SCL NO.	16926				16926				
	COL. NO.	POC-7 128A								
	MATRIX	SOIL								
	UNIT	MG/KG				MG/KG				
GASOLINE - GROs		ND				45				

NOTES: ND = NOT DETECTED

QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

SAMPLE PREPARATION:

ANALYST:

SUPERVISOR

Lucia Yap 3/10/98
LUCIA YAP DATE

Lucia Yap 3/10/98
LUCIA YAP DATE

Russ Chin 3/10/98
RUSS CHIN DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

REQUESTER'S NAME: AHMED E. HEGAB
SAMPLING LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD,
SANTA FE SPRING, CA.90670
METHOD(S): SCL 815

DATE SAMPLE RECEIVED: 1/29/98
DATE SAMPLE PREPARED: 02/05/98 - 02/09/98
DATE SAMPLE ANALYZED: 02/04/98 - 02/09/98

QC REPORT FOR

A: METHOD BLANK
B: METHOD STANDARD RECOVERY
C: LABORATORY CONTROL SAMPLE
D: SAMPLE DUPLICATE ANALYSIS

COMPOUND	A	B		C	
	METHOD BLANK	METHOD STANDARD RECOVERY	CONTROL LIMIT	LABORATORY CONTROL SAMPLE FOUND	CONTROL LIMIT
	MG/KG	%	%	MG/KG	MG/KG
GASOLINE - GROs	<45	80.9	NDY		

D			
SAMPLE DUPLICATE ANALYSIS			
PERFORMED ON :	SCL NO.	16926	
MATRIX :			
	RUN 1	RUN 2	RPD
COMPOUND	MG/KG	MG/KG	%
NO DATA			
CONTROL LIMIT			

NOTES:

NDY = NOT DETERMINED YET

SAMPLE PREPARATION

ANALYST

SUPERVISOR

Lucia Yap 3/10/98
LUCIA YAP DATE

Lucia Yap 3/10/98
LUCIA YAP DATE

Russ Chin 3/10/98
RUSS CHIN DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580 - 5795

REQUESTER'S NAME: AHMED E. HEGAB DATE SAMPLE RECEIVED: 1/29/98
SAMPLING LOCATION: POWERLINE OIL COMPANY DATE SAMPLE PREPARED: 02/05/98 - 02/09/98
12345 LAKELAND RD.,
SANTA FE SPRINGS, CA 90670 DATE SAMPLE ANALYZED: 02/04/98 - 02/09/98
METHOD(S): SCL 815 GC/FID FOR GASOLINE ANALYSIS

QC REPORT FOR MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) PERCENT RECOVERY

MATRIX SPIKE PERFORMED ON 16928
TYPE OF MATRIX SOIL
TYPE OF SPIKE GASOLINE

COMPOUND	AMOUNT OF ANALYTE IN SAMPLE MG/KG	AMOUNT OF ANALYTE ADDED MG/KG	MATRIX SPIKE		MATRIX SPIKE DUPLICATE		AVE % REC %	CONTROL LIMITS FOR % REC %	R % D BETWEEN MS/MSD %	CONTROL LIMITS FOR RPD %
			AMOUNT RECOVERE MG/KG	%REC %	AMOUNT RECOVERE MG/KG	%REC %				
GASOLINE	<45	1500	1658.9	110.6	1367.9	91.2	100.9	NDY	19.2	NDY

NOTES: NDY = NOT DETERMINED YET

SAMPLE PREPARATION

ANALYST

SUPERVISOR

Lucia Yap 3/10/98
LUCIA YAP DATE

Lucia Yap 3/10/98
LUCIA YAP DATE

Russ Chin 3/10/98
RUSS CHIN DATE

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR SCL SAMPLE(S) 16920 - 16924 ; 16926
2. SAMPLES WERE COLLECTED ON 1/27/98 AT POWERLINE OIL COMPANY
3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS AHMED E. HEGAB

4. SAMPLES WERE:

RECEIVED ON	<u>1/29/98</u>	BY HAZARDOUS MATERIALS LABORATORY-SO. CAL
EXTRACTED ON	<u>2/3/98</u>	BY EPA METHOD <u>3580</u> WASTE DILUTION
		BY EPA METHOD <u>3510</u> SEPARATORY FUNNEL LIQUID/LIQUID EXTRACTION
		BY EPA METHOD <u>3540</u> SOXHLET EXTRACTION
		BY SCL METHOD <u>106M</u> MECHANICAL SHAKER
CLEANED UP ON	<u>2/4/98</u>	BY EPA METHOD <u>3620</u> FLORISIL COLUMN CLEAN UP
ANALYZED ON	<u>2/5/98 - 2/6/98</u>	BY SCL METHOD <u>816</u> DIESEL BY GC/FID

NOTE: SCL=HAZARDOUS MATERIALS LABORATORY-SO.CAL.

DATA PACKAGE WAS COMPLETED ON 2/10/98

5. DURING THE COURSE OF THESE ANALYSES, NO PROBLEM WAS ENCOUNTERED.
6. QC PARAMETERS/INDICATORS WERE WITHIN CONTROL LIMITS.
7. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE MET.
8. SAMPLE HOLDING TIME WAS MET.

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY-SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

REQUESTER: AHMED E. HEGAB

SCL NO 16920 - 16924

SAMPLE LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD
SANTA FE SPRINGS, CA 90670

DATE REPORTED: 02/09/98

METHOD(S): SCL 816 DIESEL BY GC/FID

							QUANTITATION LIMIT				
ANALYTE	SCL NO.	16920	16921	16922	16923	16924	16920	16921	16922	16923	16924
	COL. NO.	POC-1 128A	POC-2 128A	POC-3 128A	POC-4 128A	POC-5 128A					
	MATRIX	LIQUID	LIQUID	LIQUID	LIQUID	SLUDGE					
	UNIT	MG/KG	MG/L	MG/L	MG/KG	MG/KG	MG/KG	MG/L	MG/L	MG/KG	MG/KG
DIESEL		250,000	140	2,100	390,000	52,000	10,500	105	105	10,500	5,250

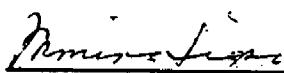
NOTES: ND = NOT DETECTED

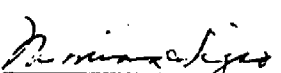
QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

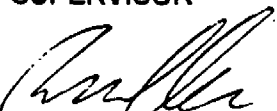
SAMPLE PREPARATION:

ANALYST:

SUPERVISOR


MONINA LIGAO
DATE 2/23/98


MONINA LIGAO
DATE 2/23/98


RUSS CHIN
DATE 2/23/98

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY-SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

REQUESTER: AHMED E. HEGAB

SCL NO 16926

SAMPLE LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD
SANTA FE SPRINGS, CA 90670

DATE REPORTED: : 2/9/98

METHOD(S): SCL 816 DIESEL BY GC/FID

						QUANTITATION LIMIT				
	SCL NO.	16926				16926				
	COL. NO.	POC-7 128A								
	MATRIX	SOIL								
ANALYTE	UNIT	MG/KG				MG/KG				
DIESEL	ND					105				

NOTES: ND = NOT DETECTED

QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

SAMPLE PREPARATION:

ANALYST:

SUPERVISOR

Monina Ligao 2/23/98
MONINA LIGAO DATE

Monina Ligao 2/23/98
MONINA LIGAO DATE

Russ Chin 2/23/98
RUSS CHIN DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

REQUESTER'S NAME: AHMED E. HEGAB

DATE SAMPLE RECEIVED: 01/29/98

SAMPLING LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD
SANTA FE SPRI

DATE SAMPLE PREPARED: 02/03/98-02/04/98

METHOD(S): SCL 816 DIESEL BY GC/FID

DATE SAMPLE ANALYZED: 02/05/98-02/06/98

QC REPORT FOR

A: METHOD BLANK
B: METHOD STANDARD RECOVERY
C: LABORATORY CONTROL SAMPLE
D: SAMPLE DUPLICATE ANALYSIS

COMPOUND	A	B		C	
	METHOD BLANK	METHOD STANDARD		LABORATORY CONTROL SAMPLE	
		RECOVERY	CONTROL LIMIT	FOUND	CONTROL LIMIT
		MG/L	%	MG/KG	MG/KG
DIESEL	< 105	88.9			

D			
SAMPLE DUPLICATE ANALYSIS			
PERFORMED ON:	SCL NO.	16923	
MATRIX:	LIQUID		
COMPOUND	RUN 1	RUN 2	RPD
	MG/KG	MG/KG	%
DIESEL	385,167	394,516	2.4
CONTROL LIMIT			NDY

NOTES:

NDY = NOT DETERMINED YET

SAMPLE PREPARATION

ANALYST

SUPERVISOR

Monina Ligao 2/23/98
MONINA LIGAO DATE

Monina Ligao 2/23/98
MONINA LIGAO DATE

Russ Chin 2/23/98
RUSS CHIN DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR SCL SAMPLES 16920-16924,16926
2. SAMPLES WERE COLLECTED ON 01/27/98 AT POWERLINE OIL COMPANY
12345 LAKELAND ROAD, SANTA FE SPRING CA 90670
3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS AHMED HEGAB
4. SAMPLES WERE :

RECEIVED	ON	<u>01/29/98</u>	BY HML-SO.CAL.
EXTRACTED	ON	<u>01/29-30/98</u>	BY EPA METHOD <u>3540</u> (SOXHLET EXTRACTION)
			EPA METHOD <u>3510</u> (SEPARATORY FUNNEL LIQ/LIQ EXTRACTION)
			SOP METHOD <u>106</u> (SHAKER WITH METHYLENE CHLORIDE)
			EPA METHOD <u>3580</u> (WASTE DILUTION WITH METHYLENE CHLORIDE)
CLEANED	ON	<u>02/02-03/98</u>	BY EPA METHOD <u>3640</u> (GEL PERMEATION COLUMN)
ANALYZED	ON	<u>02/04-09/98</u>	BY EPA METHOD <u>8270</u> (SEMITVOLATILE ORGANICS BY GC/MS)
- DATA PACKAGE WAS COMPLETED ON 02/10/98
5. NO MAJOR PROBLEMS WERE ENCOUNTERED DURING THE COURSE OF THESE ANALYSES.
ONE OUT 11 R&D BETWEEN MS/MSD WAS OUTSIDE THE ADVISORY CONTROL LIMITS. BASED ON THE
ACCEPTANCE CRITERIA ESTABLISHED FOR THIS METHOD.NO IMMEDIATE CORRECTIVE ACTION IS
NECESSARY.
6. ALL OTHER QC PARAMETERS /INDICATORS WERE WITHIN CONTROL LIMITS.
7. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE MET.
8. SAMPLE HOLDING TIME WAS MET.

LABORATORY REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580 5795

PAGE 1 OF 7

Lector's Name: AHMED HEGAB

SCL NO. : 16920-16923

Sample Location : POWERLINE OIL COMPANY
12345 LAKELAND ROAD, SANTA FE SPRING CA 90670

Date Reported : 02/09/98

Analytical Procedures Used : EPA 8270

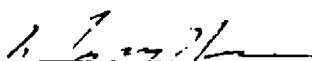
GC/MS SEMIVOLATILE ORGANICS ANALYSIS


							QUANTITATION LIMIT				
COMPOUNDS	SCL NO.	Method Blank	16920	16921	16922	16923	Method Blank	16920	16921	16922	16923
	COL.NO.		POC-1 128A	POC-2 128A	POC-3 128A	POC-4 128A					
	MATRIX	SOLVENT	OIL	LIQUID	LIQUID	OIL					
	UNIT	MG/KG	MG/KG	MG/L	MG/L	MG/KG	MG/KG	MG/KG	MG/L	MG/L	MG/KG
1,3-DICHLOROBENZENE	CAS No. 541-73-1	ND	ND	ND	ND	ND	50	100	3	1	150
BIS(2-CHLOROETHYL) ETHER	111-44-4	ND	ND	ND	ND	ND	50	100	3	1	150
1,4-DICHLOROBENZENE	106-46-7	ND	ND	ND	ND	ND	50	100	3	1	150
1,2-DICHLOROBENZENE	95-50-1	ND	ND	ND	ND	ND	50	100	3	1	150
HEXACHLOROETHANE	67-72-1	ND	ND	ND	ND	ND	50	100	3	1	150
BIS(2-CHLOROISOPROPYL) ETHER	39638-32-9	ND	ND	ND	ND	ND	50	100	3	1	150
N-NITROSO-DI-N-PROPYLAMINE	621-64-7	ND	ND	ND	ND	ND	50	100	3	1	150
NITROBENZENE	98-95-3	ND	ND	ND	ND	ND	50	100	3	1	150
ISOPHORONE	78-59-1	ND	ND	ND	ND	ND	50	100	3	1	150
1,2,4-TRICHLOROBENZENE	120-82-1	ND	ND	ND	ND	ND	50	100	3	1	150
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ND	ND	ND	ND	ND	50	100	3	1	150
HEXACHLOROBUTADIENE	87-68-3	ND	ND	ND	ND	ND	50	100	3	1	150
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	ND	ND	ND	ND	50	100	3	1	150
2-CHLORONAPHTHALENE	91-58-7	ND	ND	ND	ND	ND	50	100	3	1	150
DIMETHYLPHTHALATE	131-11-3	ND	ND	ND	ND	ND	50	100	3	1	150
2,6-DINITROTOLUENE	606-20-2	ND	ND	ND	ND	ND	50	100	3	1	150
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ND	ND	ND	ND	ND	50	100	3	1	150
2,4-DINITROTOLUENE	121-14-2	ND	ND	ND	ND	ND	50	100	3	1	150
DIETHYL PHTHALATE	84-66-2	ND	ND	ND	ND	ND	50	100	3	1	150

NOTE : QUANTITATION LIMIT = (CONCENTRATION OF THE LOWEST CALIBRATION STANDARD) TIMES (DILUTION FACTOR)
ND = NOT DETECTED

SAMPLE PREPARATION

ANALYST


MARY NEE


MARY NEE

LABORATORY REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580 5795

PAGE 4 OF 7

Lector's Name: AHMED HEGAB

SCL NO. : 16924,16926

Sample Location : POWERLINE OIL COMPANY
12345 LAKELAND ROAD,
SANTA FE SPRING, CA 90670

Date Reported : 02/09/98

Analytical Procedures Used : EPA 8270

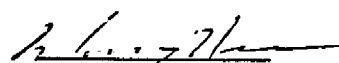
GC/MS SEMIVOLATILE ORGANICS ANALYSIS

						QUANTITATION LIMIT			
COMPOUNDS	SCL NO.			16924	16926	Method Blank	Method Blank	16924	16926
	COL.NO.	Method Blank	Method Blank	POC-5 128A	POC-7 128A				
	MATRIX	SAND	WATER	SLUDGE	SOIL	SAND	WATER		
	UNIT	MG/KG	MG/L	MG/KG	MG/KG	MG/KG	MG/L	MG/KG	MG/KG
1,3-DICHLOROBENZENE	CAS No. 541-73-1	ND	ND	ND	ND	5	0.2	50	5
BIS(2-CHLOROETHYL) ETHER	111-44-4	ND	ND	ND	ND	5	0.2	50	5
1,4-DICHLOROBENZENE	106-46-7	ND	ND	ND	ND	5	0.2	50	5
1,2-DICHLOROBENZENE	95-50-1	ND	ND	ND	ND	5	0.2	50	5
HEXACHLOROETHANE	67-72-1	ND	ND	ND	ND	5	0.2	50	5
BIS(2-CHLOROISOPROPYL) ETHER	39638-32-9	ND	ND	ND	ND	5	0.2	50	5
N-NITROSO-DI-N-PROPYLAMINE	621-64-7	ND	ND	ND	ND	5	0.2	50	5
NITROBENZENE	98-95-3	ND	ND	ND	ND	5	0.2	50	5
ISOPHORONE	78-59-1	ND	ND	ND	ND	5	0.2	50	5
1,2,4-TRICHLOROBENZENE	120-82-1	ND	ND	ND	ND	5	0.2	50	5
BIS(2-CHLOROETHOXY) METHANE	111-91-1	ND	ND	ND	ND	5	0.2	50	5
HEXACHLOROBUTADIENE	87-68-3	ND	ND	ND	ND	5	0.2	50	5
HEXACHLOROCYCLOPENTADIENE	77-47-4	ND	ND	ND	ND	5	0.2	50	5
2-CHLORONAPHTHALENE	91-58-7	ND	ND	ND	ND	5	0.2	50	5
DIMETHYLPHTHALATE	131-11-3	ND	ND	ND	ND	5	0.2	50	5
2,6-DINITROTOLUENE	606-20-2	ND	ND	ND	ND	5	0.2	50	5
4-CHLOROPHENYL PHENYL ETHER	7005-72-3	ND	ND	ND	ND	5	0.2	50	5
2,4-DINITROTOLUENE	121-14-2	ND	ND	ND	ND	5	0.2	50	5
DIETHYL PHTHALATE	84-66-2	ND	ND	ND	ND	5	0.2	50	5

NOTE : QUANTITATION LIMIT = (CONCENTRATION OF THE LOWEST CALIBRATION STANDARD) TIMES (DILUTION FACTOR)
ND = NOT DETECTED

SAMPLE PREPARATION

ANALYST


MARY NEE


MARY NEE

PAGE 1 OF 3

DATE SAMPLE RECEIVED: 01/29/98

DATE SAMPLE PREPARED: 01/29/98-02/03/98

12345 LAKELAND ROAD.

SANTA FE SPRING, CA 90670

DATE SAMPLE ANALYZED: 02/04-09/98

ANALYTICAL PROCEDURES USED:	EPA METHOD 8270	GC/MS FOR SEMIVOLATILE ORGANICS
	EPA METHOD 3540	SOXHLET EXTRACTION
	EPA METHOD 3510	SEPARATORY FUNNEL LIQ/LIQ EXTRACTION
	SOP METHOD 106	SHAKER WITH METHYLENE CHLORIDE
	EPA METHOD 3580	WASTE DILUTION WITH METHYLENE CHLORIDE
	EPA METHOD 3640	GEL PERMEATION COLUMN CLEANUP

QC REPORT FOR

A: METHOD STANDARD
B: LABORATORY CONTROL SAMPLE
C: DUPLICATE SAMPLE ANALYSIS

COMPOUND	A		B	
	METHOD STANDARD RECOVERY FOR EPA 3540	CONTROL LIMITS FOR METHOD STANDARD % RECOVERY	LAB CONTROL SAMPLE ID NO: LCS-BNA-1-0795 LCS-BNA-2-0795	
			Found	Control Limit
	%	%	mg/kg	mg/kg
PHENOL	103	59.8-117	726	485-940
2-CHLOROPHENOL	102	50.7-137	664	373-831
1,4-DICHLOROBENZENE	95	25.8-100	481	312-534
N-NITROSO-DI-N-PROPYLAMINE	107	60.8-115	878	584-1154
1,2,4-TRICHLOROBENZENE	105	48.2-115	569	418-774
4-CHLORO-3-METHYL PHENOL	115	68.6-117	704	672-936
ACENAPHTHENE	104	77.8-111	717	424-835
4-NITROPHENOL	123	60.0-128	932	508-1151
2,4-DINITROTOLUENE	118	73.0-119	939	578-1063
PENTACHLOROPHENOL	122	64.7-125	862	589-1020
PYRENE	117	73.1-117	704	386-820

C			
DULPLICATE SAMPLE ANALYSIS			
Performed on SCL 16926		Matrix	SOIL
.....		
COMPOUND	Run 1 mg/kg	Run 2 mg/kg	RPD %
NO DATA(Target compound detected was below the quantitation limit)			
CONTROL LIMIT			25

SAMPLE PREPARATION:

ANALYST:

SUPERVISING CHEMIST

Mary Nee
MARY NEE

3/24/99
DATE

Mary Nee
MARY NEE

3/14/98
DATE

Miller 2/24/91
RUSS CHIN DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES CA. 90026
TEL: (213) 580-5795

PAGE 2 OF 3

COLLECTOR'S NAME : AHMED HEGAB

DATE SAMPLE RECEIVED: 01/29/98

SAMPLING LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD SANTA FE SPRING CA. 90670

DATE SAMPLE PREPARED: 01/29/98-02/03/98

ANALYTICAL BATCH LAB ID NO.: SCL 16920-16924, 16926

DATE SAMPLE ANALYZED: 02/04-09/98

ANALYTICAL PROCEDURES USED: EPA METHOD 8270 GC/MS FOR SEMIVOLATILE ORGANICS
EPA METHOD 3540 SOXHLET EXTRACTION
EPA METHOD 3510 SEPARATORY FUNNEL LIQ/LIQ EXTRACTION
SOP METHOS 106 SHAKER WITH METHYLENE CHLORIDE
EPA METHOD 3580 WASTE DILUTION WITH METHYLENE CHLORIDE
EPA METHOD 3640 GEL PERMEATION COLUMN CLEANUP

QC REPORT FOR

MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) PERCENT RECOVERY

MATRIX SPIKE REFORMED ON SCL 16926

TYPE OF MATRIX SOIL

COMPOUND	AMOUNT OF ANALYTE IN SAMPLE	AMOUNT ANALYTE ADDED	MATRIX SPIKE		MATRIX SPIKE DUPLICATE		AVE % REC	CONTROL LIMITS FOR % REC	R % D BETWEEN MS/MSD	CONTROL LIMITS FOR RPD
			AMOUNT RECOVERED	% REC	AMOUNT RECOVERED	% REC				
	MG/KG	MG/KG	MG/KG	%	MG/KG	%	%	MG/KG	%	%
PHENOL	<10	1000	952	95	940	94	94	57.0-125	1.1	0-25
2-CHLOROPHENOL	<10	1000	957	96	976	98	97	54.9-118	2.1	0-25
1,4-DICHLOROBENZENE	<5	500	467	93	472	94	94	38.3-117	1.1	0-25
N-NITROSO-DI-N-PROPYLAMINE	<5	500	244	49	360	72	60	48.9-137	* 38	0-25
1,2,4-TRICHLOROBENZENE	<5	500	510	102	492	98	100	63.3-107	4.0	0-25
4-CHLORO-3-METHYL PHENOL	<10	1000	1074	107	1030	103	105	60.8-132	3.8	0-25
ACENAPHTHENE	<5	500	493	99	492	98	98	74.4-114	1.0	0-25
4-NITROPHENOL	<50	1000	1191	119	1396	140	130	35.5-148	16	0-25
2,4-DINITROTOLUENE	<5	500	506	101	540	108	104	54.3-129	6.7	0-25
PENTACHLOROPHENOL	<50	1000	1110	111	1130	113	112	48.5-134	1.8	0-25
PYRENE	<5	500	547	109	521	104	106	52.4-131	4.7	0-25

(Amount recovered - Amount found in sample)

NOTE : % REC = $\frac{\text{Amount recovered} - \text{Amount found in sample}}{\text{Amount added}} \times 100\%$

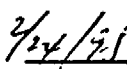
* = R2D BETWEEN MS/MSD WAS OUTSIDE THE ADVISORY CONTROL LIMIT. NO IMMEDIATE CORRECTIVE ACTION IS NECESSARY.

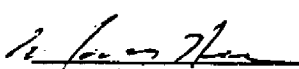
SAMPLE PREPARATION

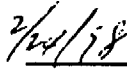
ANALYST

SUPERVISING CHEMIST


MARY NEE


DATE


MARY NEE


DATE


RUSS CHIN

DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES CA. 90026
TEL: (213) 580 5795

PAGE 3 OF 3

COLLECTOR'S NAME : AHMED HEGAB

DATE SAMPLE RECEIVED: 01/29/98

SAMPLING LOCATION: POWERLINE OIL COMPANY

DATE SAMPLE PREPARED: 01/29/98-02/03/98

12345 LAKELAND ROAD,

SANTA FE SPRING, CA 90670

DATE SAMPLE ANALYZED: 02/04-09/98

ANALYTICAL BATCH LAB ID NO.: SCL 16920-16924, 16926

ANALYTICAL PROCEDURES USED: EPA METHOD 8270 GC/MS FOR SEMIVOLATILE ORGANICS
EPA METHOD 3540 SOXHLET EXTRACTION
EPA METHOD 3510 SEPARATORY FUNNEL LIQ/LIQ EXTRACTION
SOP METHOD 106 SHAKER WITH METHYLENE CHLORIDE
EPA METHOD 3580 WASTE DILUTION WITH METHYLENE CHLORIDE
EPA METHOD 3640 GEL PERMEATION COLUMN CLEANUP

QC REPORT FOR SEMIVOLATILE SURROGATE RECOVERY

QC SAMPLES / SAMPLE NO.	2-FLUOROPHENOL			PHENOL-d6			NITROBENZENE-d5			2-FLUOROBIPHENYL			2,4,6-TRIBROMOPHENOL		
	ADDED		RECOVERED	ADDED		RECOVERED	ADDED		RECOVERED	ADDED		RECOVERED	ADDED		RECOVERED
	MG/KG	MG/KG	% REC	MG/KG	MG/KG	% REC	MG/KG	MG/KG	% REC	MG/KG	MG/KG	% REC	MG/KG	MG/KG	% REC
METHOD BLANK - SOIL	200	198	98	200	175	87	100	99	99	100	108	108	200	205	102
METHOD BLANK - WATER	8.0	7.7	96	8.0	6.6	82	4.0	4.0	100	4.0	4.1	102	8.0	8.9	111
METHOD BLANK - SLUDGE	2000	1911	96	2000	1726	86	1000	972	97	1000	958	96	2000	2384	119
METHOD STANDARD	200	204	102	200	204	102	100	100	100	100	99	99	200	237	118
MATRIX SPIKE	1000	927	93	1000	969	97	500	498	100	500	469	94	1000	1129	113
MATRIX SPIKE DUPLICATE	1000	952	95	1000	958	96	500	480	96	500	470	94	1000	1082	108
LAB CONTROL SAMPLE	1000	980	98	1000	941	94	500	482	96	500	500	100	1000	1097	110
SCL 16920	2000	2081	104	2000	1909	95	1000	1076	108	1000	1001	100	2000	1927	96
SCL 16921 (MG/L)	40	44.5	111	40	40.9	102	20	17.5	88	20	18.0	90	40	34.7	87
SCL 16922 (MG/L)	20	18.5	93	20	17.6	88	10	8.5	85	10	8.9	89	20	19.3	96
SCL 16923	2000	2199	110	2000	1903	95	1000	954	95	1000	956	96	2000	1500	75
SCL 16924	2000	1615	81	2000	1605	80	1000	874	87	1000	905	90	2000	1810	90
SCL 16926	200	190	95	200	175	88	100	85	84	100	91	91	200	172	86
SCL 16926 DUPLICATE	200	199	100	200	174	87	100	100	100	100	102	102	200	206	103
CONTROL LIMIT FOR %REC	38.6-149			56.7-141			38.2-138			60.1-123			41.6-128		

NOTE: NR = NOT RECOVERED

NA = NOT ANALYZED

SAMPLE PREPARATION:

ANALYST:

SUPERVISING CHEMIST

MARY NEE

DATE

MARY NEE

DATE

RUSS CHIN

DATE

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90028
TELEPHONE (213) 580-5795

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR SCL SAMPLE(S) 16920 to 16924, 16926
2. SAMPLES WERE COLLECTED ON 1/28/98 AT POWERLINE OIL COMPANY
3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS AHMED E. HEGAB
4. SAMPLES WERE:

RECEIVED ON 1/29/98 BY HAZARDOUS MATERIALS LABORATORY-SO. CAL

EXTRACTED AND
ANALYZED ON 1/30/98, 2/2/98 BY EPA METHOD 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

DATA PACKAGE WAS COMPLETED ON 2/10/98
5. DURING THE COURSE OF THESE ANALYSES, NO PROBLEM WAS ENCOUNTERED.
6. QC PARAMETERS/INDICATORS WERE WITHIN CONTROL LIMITS.
7. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE MET.
8. SAMPLE HOLDING TIME WAS MET.

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY-SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

QUESTER: AHMED E. HEGAB

SCL NO. 16920-16923

SAMPLE LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD, SANTA FE SPRING
CA 90670

DATE REPORTED: 02/10/98

METHOD(S): EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

VOCs BY GC/MS

							QUANTITATION LIMIT				
ANALYTE	SCL NO.		16920	16921	16922	16923	METHOD BLANK	16920	16921	16922	16923
	COL NO.	METHOD	POC-1- 128A	POC-2 128A	POC-3 128A	POC-4 128A					
		BLANK									
	MATRIX	WATER	LIQUID	WATER	WATER	LIQUID					
	UNIT	UG/L	MG/KG	UG/L	UG/L	MG/KG	UG/L	MG/KG	UG/L	UG/L	MG/KG
ACETONE		ND	*7400	ND	ND	ND	50.0	8500	12500	6250	2200
1,1-DICHLOROETHENE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
METHYLENE CHLORIDE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
1,2-DICHLOROETHENE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
1,1-DICHLOROETHANE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
2-BUTANONE (MEK)		ND	ND	ND	ND	ND	50.0	8500	12500	6250	2200
1,2-DICHLOROETHENE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
2,2-DICHLOROPROPANE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
CHLOROFORM		ND	ND	ND	ND	ND	5.0	850	1250	625	220
BROMOCHLOROMETHANE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
1,1,1-TRICHLOROETHANE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
1,2-DICHLOROETHANE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
BENZENE		ND	*350	1900	1300	280	5.0	850	1250	625	220
1,1-DICHLOROPROPENE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
CARBONTETRACHLORIDE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
1,2-DICHLOROPROPANE		ND	ND	ND	ND	ND	5.0	850	1250	625	220
TRICHLOROETHENE		ND	ND	ND	ND	ND	5.0	850	1250	625	220

NOTES: ND = NOT DETECTED UG = MICROGRAM MG = MILLIGRAM
QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYST

SUPERVISOR

Frye Ang
INGE ANG
DATE 2/25/98

Russ Chin
RUSS CHIN
DATE 2/25/98

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY-SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90028
TELEPHONE (213) 580-5795

TESTER:

AHMED E. HEGAB

SCL NO. 16924,16926

SAMPLE LOCATION:

POWERLINE OIL COMPANY
12345 LAKELAND ROAD, SANTA FE SPRING
CA 90670

DATE REPORTED: 2/10/98

METHOD(S): EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

VOCs BY GC/MS

ANALYTE	QUANTITATION LIMIT						
	SCL NO.		16924	16926		16924	16926
	COL NO.	METHOD	POC-5	POC-7-	METHOD		
		BLANK	128A	128A	BLANK		
	MATRIX	WATER	SLUDGE	SOIL			
	UNIT	UG/L	MG/KG	MG/KG	UG/L	MG/KG	MG/KG
ACETONE		ND	ND	ND	50.0	500	50.0
1,1-DICHLOROETHENE		ND	ND	ND	5.0	50	5.0
METHYLENE CHLORIDE		ND	ND	ND	5.0	50	5.0
trans -1,2-DICHLOROETHENE		ND	ND	ND	5.0	50	5.0
1,1-DICHLOROETHANE		ND	ND	ND	5.0	50	5.0
2-BUTANONE (MEK)		ND	ND	ND	50.0	500	50.0
cis -1,2-DICHLOROETHENE		ND	ND	ND	5.0	50	5.0
2,2-DICHLOROPROPANE		ND	ND	ND	5.0	50	5.0
CHLOROFORM		ND	ND	ND	5.0	50	5.0
BROMOCHLOROMETHANE		ND	ND	ND	5.0	50	5.0
1,1,1-TRICHLOROETHANE		ND	ND	ND	5.0	50	5.0
1,2-DICHLOROETHANE		ND	ND	ND	5.0	50	5.0
BENZENE		ND	140	ND	5.0	50	5.0
1,1-DICHLOROPROPENE		ND	ND	ND	5.0	50	5.0
CARBONTETRACHLORIDE		ND	ND	ND	5.0	50	5.0
1,2-DICHLOROPROPANE		ND	ND	ND	5.0	50	5.0
TRICHLOROETHENE		ND	ND	ND	5.0	50	5.0

NOTES:

ND = NOT DETECTED

UG = MICROGRAM

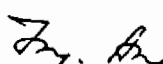
QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

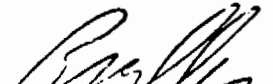
* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYST

SUPERVISOR


ANALYST
DATE 2/10/98


SUPERVISOR
DATE 2/10/98

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

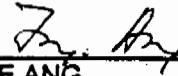
REQUESTER: AHMED E. HEGAB DATE SAMPLE RECEIVED: 1/29/98
SAMPLING LOCATION: POWERLINE OIL COMPANY DATE SAMPLE ANALYZED: 1/30/98, 2/2/98
12345 LAKELAND ROAD, SANTA FE SPRING
CA 90670
METHODS: EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

QC REPORT FOR SURROGATE SPIKE % RECOVERY

QC/SAMPLES / SAMPLE NO.	DIBROMOFLUOROETHANE			TOLUENE - D8			4 - BROMOFLUOROBENZENE		
	ADDED		RECOVERED	ADDED		RECOVERED	ADDED		RECOVERED
	UG/KG	UG/KG	% REC	UG/KG	UG/KG	% REC	UG/KG	UG/KG	% REC
METHOD BLANK	20	20.4	102	20	21.2	106	20	19.3	97
MATRIX SPIKE	20	19.6	98	20	18.1	91	20	19.2	96
MATRIX SPIKE DUP.	20	19.3	96	20	20.4	102	20	19.3	97
SCL 16920	20	19.7	99	20	19.8	99	20	19.8	99
SCL 16921	20	19.2	96	20	18.7	94	20	19.4	97
SCL 16922	20	18.1	91	20	20.5	103	20	18	90
SCL 16923	20	18.7	94	20	20.4	102	20	18.4	92
SCL 16924	20	18.4	92	20	18.2	91	20	18.7	94
SCL 16926	20	19.7	99	20	20.1	101	20	18.1	91
CONTROL LIMIT FOR %REC	83.5 - 111			70.3 - 106			79.6 - 111		


NOTES:

ANALYST


INGE ANG

7/25/98
DATE

SUPERVISOR

 2/25/98
RUSS CHIN DATE

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580 - 5795

REQUESTER: AHMED E. HEGAB

DATE SAMPLE RECEIVED: 1/29/98

SAMPLING LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD, SANTA FE SPRING
CA 90670

DATE SAMPLE ANALYZED: 1/30/98, 2/2/98

METHOD(S): EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

QC REPORT FOR SAMPLE DUPLICATE ANALYSIS

PERFORMED ON SCL NO.:

16924

☐

NOT ANALYZED (SEE NOTES)

TYPE OF MATRIX:

SLUDGE

ANALYTE	SAMPLE	SAMPLE DUPLICATE	AVERAGE	REL % DIFF(R&D)	CONTROL LIMIT
	MG/KG	MG/KG	MG/KG	%	%
BENZENE	140	130	140	7.1	0-25
ETHYL BENZENE	140	140	140	0	0-25
M. & P.-XYLENES	440	480	460	8.7	0-25
O - XYLENE	190	220	210	14	0-25
NAPHTHALENE	150	160	160	6.3	0-25

QC REPORT FOR MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) PERCENT RECOVERY

MATRIX SPIKE PERFORMED ON

16926

☐

NOT ANALYZED SEE NOTES

TYPE OF MATRIX

SOIL

COMPOUND	AMOUNT OF ANALYTE IN SAMPLE UG	AMOUNT OF ANALYTE ADDED UG	MATRIX SPIKE		MATRIX SPIKE DUPLICATE		AVE % REC	CONTROL LIMITS FOR % REC	R % D BETWEEN MS/MSD	CONTROL LIMITS FOR RPD
			AMOUNT RECOVERED	%REC	AMOUNT RECOVERED	%REC				
			UG	%	UG	%				
1,1-DICHLOROETHENE	<125	500	412	83	461	92	88	56.6-113	10	0-25
TRICHLOROETHENE	<125	500	372	75	395	79	77	57.7-117	5.2	0-25
CHLOROBENZENE	<125	500	455	91	476	95	93	58.3-119	4.3	0-25
TOLUENE	<125	500	429	86	447	89	88	62.0-120	3.4	0-25
BENZENE	<125	500	458	92	484	97	95	61.3-114	5.2	0-25

NOTES: NDY = NOT DETERMINED YET.

ANALYST

SUPERVISOR

INGE ANG

7/25/98
DATE

RUSS CHIN

7/25/98
DATE

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR SCL SAMPLE(S) 16928
SUPPLEMENTAL EPA 8260 ANALYSIS WAS REQUESTED ON 3/3/98
2. SAMPLES WERE COLLECTED ON 1/29/98 AT POWERLINE OIL COMPANY
3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS AHMED E. HEGAB
4. SAMPLES WERE:

RECEIVED ON 1/29/98 BY HAZARDOUS MATERIALS LABORATORY-SO. CAL

EXTRACTED AND
ANALYZED ON 3/6/98 BY EPA METHOD 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

DATA PACKAGE WAS COMPLETED ON 3/9/98
5. DURING THE COURSE OF THESE ANALYSES, NO PROBLEM WAS ENCOUNTERED.
6. QC PARAMETERS/INDICATORS WERE WITHIN CONTROL LIMITS.
7. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE MET.
8. RECOMMENDED SAMPLE HOLDING TIME WAS EXCEEDED.

QUALITY CONTROL (QC) REPORT
DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580 - 5795

REQUESTER: AHMED E. HEGAB
SAMPLING LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD
SANTA FE SPRINGS, CA 90670
METHOD(S): EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

DATE SAMPLE RECEIVED: 1/29/98

DATE SAMPLE ANALYZED: 3/8/98

QC REPORT FOR SAMPLE DUPLICATE ANALYSIS

PERFORMED ON SCL NO.:

16928

☐

NOT ANALYZED (SEE NOTES)

TYPE OF MATRIX:

SLUDGE

ANALYTE	SAMPLE MG/KG	SAMPLE DUPLICATE MG/KG	AVERAGE MG/KG	REL % DIFF(R&D) %	CONTROL LIMIT %
BENZENE	110	130	120	17	0-25
ETHYL BENZENE	180	210	200	15	0-25
M. & P -XYLENES	490	570	530	15	0-25
O-XYLENE	240	270	260	12	0-25

QC REPORT FOR MATRIX SPIKE(MS)/MATRIX SPIKE DUPLICATE(MSD) PERCENT RECOVERY

MATRIX SPIKE PERFORMED ON

☒

NOT ANALYZED SEE NOTES

TYPE OF MATRIX

COMPOUND	AMOUNT OF ANALYTE IN SAMPLE	AMOUNT OF ANALYTE ADDED	MATRIX SPIKE		MATRIX SPIKE DUPLICATE		AVE % REC	CONTROL LIMITS FOR % REC	R % D BETWEEN MS/MSD	CONTROL LIMITS FOR RPD
			AMOUNT RECOVERED	%REC	AMOUNT RECOVERED	%REC				
1,1-DICHLOROETHENE										
TRICHLOROETHENE										
CHLOROBENZENE										
TOLUENE										
BENZENE										

NOTES: NDY = NOT DETERMINED YET.

X = MS/MSD ANALYSIS WAS NOT APPLICABLE DUE TO HIGH LEVELS OF ANALYTES PRESENT IN THE SAMPLE

ANALYST

SUPERVISOR

INGE ANG

DATE

RUSS CHIN

DATE

QUALITY CONTROL (QC) REPORT
 DEPARTMENT OF TOXIC SUBSTANCES CONTROL
 HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
 1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
 TELEPHONE (213) 580-5795

REQUESTER: AHMED E. HEGAB DATE SAMPLE RECEIVED: 1/29/98
 SAMPLING LOCATION: POWERLINE OIL COMPANY DATE SAMPLE ANALYZED: 3/8/98
 12345 LAKELAND ROAD
 SANTA FE SPRINGS, CA 90670
 METHODS: EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

QC REPORT FOR SURROGATE SPIKE % RECOVERY

QC/SAMPLES / SAMPLE NO.	DIBROMOFLUOROETHANE			TOLUENE - D8			4 - BROMOFLUOROBENZENE		
	ADDED		RECOVERED	ADDED		RECOVERED	ADDED		RECOVERED
	UG/KG	UG/KG	% REC	UG/KG	UG/KG	% REC	UG/KG	UG/KG	% REC
METHOD BLANK	20	21.3	107	20	17.4	87	20	17.2	86
SCL 16928	20	19.3	97	20	18.2	91	20	18.4	92
SCL 16928 DUP.	20	19.5	98	20	18.7	94	20	18.4	92
CONTROL LIMIT FOR %REC	74.2 - 101			74.6 - 127			72.3 - 121		

NOTES:

ANALYST

SUPERVISOR

Inge Ang 3/11/98
 INGE ANG DATE

Russ Chin 3/11/98
 RUSS CHIN DATE

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY-SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

COLLECTOR'S NAME AHMED E. HEGAB

SCL NO: 16928

SAMPLE LOCATION: POWERLINE OIL COMPNY
12345 LAKELAND RD.,
SANTA FE SPRINGS, CA 90670

DATE REPORTED: 3/6/98

METHOD(S): EPA 1020

SETAFLASH CLOSED CUP METHOD
FOR IGNITABILITY

FLASH POINT

ANALYSIS	SCL NO.	16928					
	COL NO.	POC 9 128A					
	MATRIX	SLUDGE					
	UNIT	°F					
FLASH POINT		> 140					

ANALYST:

Monina Ligao 3/11/98
MONINA LIGAO DATE

SUPERVISOR

Russ Chin 3/11/98
RUSS CHIN

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY-SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

COLLECTOR'S NAME AHMED E. HEGAB

SCL NO: 16920-16924,16926

SAMPLE LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD,
SANTA FE SPRINGS, CA 90670

DATE REPORTED: 02/10/98

METHOD(S): EPA 1020 SETAFLASH CLOSED - CUP METHOD FOR IGNITABILITY

FLASH POINT

ANALYSIS	SCL NO.	16920	16921	16922	16923	16924	16926
	COL. NO.	POC-1	POC-2	POC-3	POC-4	POC-5	POC-7
		128A	128A	128A	128A	128A	128A
	MATRIX	OIL	WATER	SLUDGE	OIL	SLUDGE	SOIL
	UNIT	°F	°F	°F	°F	°F	°F
FLASH POINT		122	ND	133	135	128	124

NOTE:

ANALYST:

Faina Goretsky 216-98
FAINA GORETSKY DATE

SUPERVISOR

Russ Chin 2/16/98
RUSS CHIN DATE

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

APR 08 1998

1

CASE NARRATIVE

1. THIS ANALYTICAL REPORT PACKAGE WAS PREPARED FOR SCL SAMPLE(S) 16920 TO 16924, 16928
SUPPLEMENTAL TCLP-VOC ANALYSIS WAS REQUESTED ON 03/03/98
2. SAMPLES WERE COLLECTED ON 1/28/98 AT POWERLINE OIL COMPANY
3. COLLECTOR'S NAME ON THE SAMPLE ANALYSIS REQUEST FORM IS AHMED E. HEGAB
4. SAMPLES WERE: (TCLP EXTRACTS)

RECEIVED ON 3/17/98 BY HAZARDOUS MATERIALS LABORATORY-SO. CAL

ANALYZED ON 3/26/98 - 3/27/98 BY EPA METHOD 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS

DATA PACKAGE WAS COMPLETED ON 3/31/98
5. DURING THE COURSE OF THESE ANALYSES, NO PROBLEM WAS ENCOUNTERED.
6. QC PARAMETERS/INDICATORS WERE WITHIN CONTROL LIMITS.
7. INSTRUMENT INITIAL CALIBRATION & CONTINUING CALIBRATION CRITERIA WERE MET.
8. RECOMMENDED SAMPLE HOLDING TIME WAS EXCEEDED.

DEPARTMENT OF TOXIC SUBSTANCE CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 W. TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

INDEX

EPA 8260 FOR SAMPLE (S) 16920 - 16924, 16928

	PAGE
1. CASE NARRATIVE	1
2. INDEX	2
3. HAZARDOUS MATERIALS SAMPLE ANALYSIS REQUEST FORMS	3 - 4
4. LABORATORY ANALYTICAL REPORT (S)	5 - 6
5. QC REPORT FOR	7
a. Sample Duplicate Analysis	
b. Matrix Spike/Matrix Spike Duplicate Analysis	
6. QC REPORT FOR SURROGATE SPIKE % RECOVERY	8

TOTAL PAGES = 8

HAZARDOUS MATERIALS SAMPLE ANALYSIS REQUEST

1. Authorization Number

SCA 3482

HML No. 16920
To 16929

2 Page
1 of 2

3. Requester: Ahmed E. Hegab
4. Phone (8) 667-2902
Address (To Receive Results):

5. Priority Level: 1 2 3
a. Authorized by

6. Date Sampled 1-27-1998 7. Time Sampled Hours

9. Activity: ☒ SEB ☐ SMB ☐ FPB ☐ FMB ☐ HQ ☐ OTHER

10. SAMPLING LOCATION CAD008383291

a. EPA ID No.

b. Site Powerline Oil Company

c. Address 12359 Lake Road Santa Fe Springs Ca. 90245
Number Street City Zip

8. Codes (fill in all applicable codes)

a. STC 3030
b. Region 03
c. INDEX 6310
d. PCA 37322
e. MPC
f. SITE 30012133
g. County 19

11. SAMPLES

a. ID	b. Collector's No.	c. Lab No.	d. Type	e. Type	f. Size	g. Field Information
A	POC-1-128A	16920	Sludge	Glass	16 oz	Top of Tank 27105 (Hydrocarbon)
B	POC-2-128A	16921	Sludge	Glass	16 oz	oily Sludge 90 ft Tank 10006
C	POC-3-128A	16922	Sludge	Glass	16 oz	Bottom of Tank 27105 (Sludge)
D	POC-4-128A	16923	oily liquid	Glass	16 oz	Top Tank 10006
E	POC-5-128A	16924	Sludge	Glass	16 oz	Bottom Tank 10006
F	POC-6-128A	16925	Soil Sample	Glass	16 oz	Soil 14 ft. north child
G	POC-7-128A	16926	Soil Sample	"	16 oz	around tank 10006
H	POC-8-128A	16927	Sludge	"	16 oz	bln Tank 35 & 3072
I	POC-9-128A		Sludge	"		small Tank 2705
J	POC-10-128A		Sludge	"		under tank 10006

12. ANALYSIS REQUESTED

a. ☒ pH E-L
b. ☒ Metal Scan E-L
c. ☐ Metals (Spec)
d. ☐ W.E.T.
e. ☐ VOA-8010
f. ☐ VOA-8020
g. ☐ VOA-H/S
h. ☐ VOA-8240
i. ☒ VOA-8260 for A, B, C, D, E, G
j. ☒ SVO-8270
k. ☒ Diesel/Gasoline
l. ☐ Flash Point
m. ☐ C1-Pesticides
n. ☐ OP-Pesticides
o. ☐
p. ☐
q. ☐

13. SPECIAL REMARKS:

14. SUPPLEMENTAL REQUESTS

15. CHAIN OF CUSTODY

a. Ahmed E. Hegab Signature	1472 Jan 30, 1998 Name/Title	1/28/98 Inclusive Dates
b. Donald Balungray Signature	DTSC Lab Name/Title	1/28/98 Inclusive Dates
c. Janice Whitakawa Signature	Janice Whitakawa/PHC III Name/Title	1/29/88 to 9/19/98 Inclusive Dates
d. Signature	 Name/Title	1/1/98 Inclusive Dates

16. LAB REMARKS: HML: TCLP-8260 on 16920 to 16924 & 16925
3/9/98

HAZARDOUS MATERIALS SAMPLE ANALYSIS REQUEST

1. Authorization Number

HML No. 16920.

2. Page

To 16929

2 of 2

3. Requestor: Ahmed E. Hegab
4. Phone: 81667-2902
5. Address (To Receive Results):
6. FAX ()

7. TAT Level: 1
(circle one)
Authorized By
2 3 4

3. Date Sampled 1/27/98
10. Activity: ☐ SCD ☐ SRPD ☐ SMB ☐ FPB ☐ SPPT ☐ ER/CL ☐ Others

11. SAMPLING LOCATION CADCO 083832911
a. EPA ID No.

b. Site Power Line Oil Company
c. Address
Number Street City ZIP

9. Codes (fill in all applicable codes)
a. Office 03
b. INDEX 6310
c. PCA 37322
d. MPC
e. SITE 30012133
f. County

12. SAMPLES

a. ID	b. Collector's No.	c. Lab No.	d. Type	e. Type	f. Size	g. Field Information
A	<u>D100 1/12/98</u>	<u>16928</u>	<u>Sludge</u>	<u>Glass</u>	<u>16oz</u>	<u>Middle Tank 2/05</u>
B	<u>D100 1/12/98</u>	<u>16929</u>	<u>Sludge</u>	<u>Glass</u>	<u>16oz</u>	<u>Under Tank 1002</u>
C						
D						
E						
F						
G						
H						

13. ANALYSIS REQUESTED

a. ☒ pH A+B
b. ☒ Metal Scan A+B
c. ☐ Metals (Spec)
d. ☐ W.E.T.
e. ☒ Flash Point A
f. ☐ PAHs - 3310
g. ☐ PCBs
h. ☐ TPH
i. ☐ Gasoline
j. ☐ Diesel
k. ☐ Cl - Pest
l. ☐ OP - Pest
m. ☐ VOA - 8021
n. ☒ VOA - 8260 A
o. ☐ SVO - 8276
p. ☐ TCLP (specify)
q. ☐

14. SPECIAL REMARKS/ANALYSIS OBJECTIVE:

15. SUPPLEMENTAL REQUESTS
Initials
Date

16. CHAIN OF CUSTODY

a. Signature Name/Title Inclusive Dates
b. Signature Name/Title Inclusive Dates
c. Signature Name/Title Inclusive Dates
d. Signature Name/Title Inclusive Dates

17. LAB REMARKS:

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90028
TELEPHONE (213) 580 - 5795

7

REQUESTER: AHMED E. HEGAB

DATE SAMPLE RECEIVED: 1/28/98

SAMPLING LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD
SANTA FE SPRING, CA 90670

DATE SAMPLE ANALYZED: 3/26/98 - 3/27/98

METHOD(S): EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS MODIFIED FOR TCLP

QC REPORT FOR SAMPLE DUPLICATE ANALYSIS

PERFORMED ON SCL NO.:

18924

☐ NOT ANALYZED (SEE NOTES)

TYPE OF MATRIX:

TCLP EXTRACTS

	SAMPLE	SAMPLE DUPLICATE	AVERAGE	REL % DIFF(R&D)	CONTROL LIMIT
ANALYTE	MG/L	MG/L	MG/L	%	%
BENZENE	1.5	1.7	1.6	5.9	0-25

QC REPORT FOR
MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) PERCENT RECOVERY

MATRIX SPIKE PERFORMED ON

☒

NOT ANALYZED (SEE NOTES)

TYPE OF MATRIX

COMPOUND	AMOUNT OF ANALYTE IN SAMPLE MG/KG	AMOUNT OF ANALYTE ADDED MG/KG	MATRIX SPIKE		MATRIX SPIKE DUPLICATE		AVE % REC	CONTROL LIMITS FOR % REC	R % D BETWEEN MS/MSD	CONTROL LIMITS FOR RPD
			AMOUNT RECOVERED MG/KG	%REC %	AMOUNT RECOVERED MG/KG	%REC %				
BENZENE										
VINYL CHLORIDE										
CHLOROFORM										
2-BUTANONE (MEK)										
1,2-DICHLOROETHENE										
TRICHLOROETHENE										
TETRACHLOROETHENE										
CHLOROBENZENE										
1,1-DICHLOROBENZENE										
1,4-DICHLOROBENZENE										
CARBONTETRACHLORIDE										

NOTES: X = MS/MSD ANALYSIS WAS NOT APPLICABLE

ANALYST

Inge Ang
INGE ANG

4/6/98
DATE

SUPERVISOR

Russ Chin
RUSS CHIN

4/6/98
DATE

REQUESTER: AHMED E. HEGAB
SAMPLE LOCATION: POWERLINE OIL COMPANY
12345 LAKELAND ROAD
SANTA FE SPRING, CA. 90670

SCL NO. A8924,16928
BLANKS
DATE REPORTED: 3/31/98

METHOD(S): EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS MODIFIED FOR TCLP

TCLP VOCs BY GC/MS

	SCL NO.		16924	16928	METHOD	STORAGE	QUANTITATION LIMIT			
	COL. NO.	METHOD	POC-5-128A	DOC-9-128A	BLANK	BLANK	METHOD	16924	METHOD	STORAGE
	MATRIX	WATER	TCLP EXTRACT	TCLP EXTRACT			BLANK	16928	BLANK	BLANK
ANALYTE	UNIT	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
BENZENE		ND	1.6	1.4	ND	ND	0.005	0.63	0.005	0.005
VINYL CHLORIDE		ND	ND	ND	ND	ND	0.005	0.63	0.005	0.005
CHLOROFORM		ND	ND	ND	ND	ND	0.005	0.63	0.005	0.005
2-B' NONE (MEK)		ND	ND	ND	ND	ND	0.05	6.3	0.05	0.05
1,2-DICHLOROETHANE		ND	ND	ND	ND	ND	0.005	0.63	0.005	0.005
TRICHLOROETHENE		ND	ND	ND	ND	ND	0.005	0.63	0.005	0.005
TETRACHLOROETHENE		ND	ND	ND	ND	ND	0.005	0.63	0.005	0.005
CHLOROBENZENE		ND	ND	ND	ND	ND	0.005	0.63	0.005	0.005
1,1-DICHLOROETHENE		ND	ND	ND	ND	ND	0.005	0.63	0.005	0.005
1,4-DICHLOROBENZENE		ND	ND	ND	ND	ND	0.005	0.63	0.005	0.005
CARBON TETRACHLORIDE		ND	ND	ND	ND	ND	0.005	0.63	0.005	0.005

TENTATIVELY IDENTIFIED COMPOUNDS:

SCL 16924: ALIPH. HYDROCARBONS C5, C9, MTBE, ALKYL BENZENES, INDAN & NAPHTHALENE.

SCL 16928: MTBE, ALKYL BENZENES, INDAN & NAPHTHALENE.

INDAN, METHYL & DIMETHYL INDANS, NAPHTHALENE, DECAHYDRO NAPHTHALENE.

SCL 16924: ALIPH. HYDROCARBONS: C5, C9, ALKYL BENZENES, MTBE, INDAN, NAPHTHALENE

SCL 16928: ALKYL BENZENES, INDAN, NAPHTHALENE.

NOTES: ND = NOT DETECTED UG = MICROGRAM MG = MILLIGRAM
QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)
* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.
- = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

ANALYST

SUPERVISOR

[Signature] 4/6/98
INGE ANG DATE

[Signature] 4/6/98
RUSS CHIN DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
HAZARDOUS MATERIALS LABORATORY - SOUTHERN CALIFORNIA
1449 WEST TEMPLE STREET, LOS ANGELES, CA 90026
TELEPHONE (213) 580-5795

8

REQUESTER: AHMED E. HEGAB DATE SAMPLE RECEIVED: 01/28/98
SAMPLING LOCATION: POWERLINE OIL COMPANY DATE SAMPLE ANALYZED: 3/26/98-3/27/98
12345 LAKELAND ROAD
SANTA FE SPRING, CA 90670
METHOD(S): EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS MODIFIED FOR TCLP

QC REPORT FOR SURROGATE SPIKE % RECOVERY

QC/SAMPLES / SAMPLE NO.	DIBROMOFLUOROETHANE			TOLUENE - D8			4-BROMOFLUOROBENZENE		
	ADDED	RECOVERED		ADDED	RECOVERED		ADDED	RECOVERED	
	UG/KG	UG/KG	% REC	UG/KG	UG/KG	% REC	UG/KG	UG/KG	% REC
LABORATORY BLANK	20	20.5	103	20	18.1	91	20	19.4	97
METHOD BLANK	20	19.4	97	20	15.9	80	20	17.6	88
STORAGE BLANK	20	20	100	20	17.5	88	20	18.5	93
SCL 16920 TCLP EXTRACT	20	19.8	99	20	18.9	95	20	18.5	93
SCL 16920 PRIM. EXTRACT	20	18.2	91	20	19.6	98	20	19.5	98
SCL 16921 TCLP EXTRACT	20	19.7	99	20	18	90	20	18	90
SCL 16922 TCLP EXTRACT	20	20.2	101	20	18.4	92	20	18.1	91
SCL 16922 PRIM EXTRACT	20	20.4	102	20	16.3	82	20	17.2	86
SCL 16923 TCLP EXTRACT	20	19.3	97	20	19.6	98	20	17.7	89
SCL 16923 PRIM EXTRACT	20	17.8	89	20	21.1	106	20	19.5	98
SCL 16924 TCLP EXTRACT	20	19.4	97	20	19.2	96	20	17.3	87
SCL 16928 TCLP EXTRACT	20	20	100	20	18.6	93	20	18.3	92
SCL 16928 PRIM EXTRACT	20	19.6	98	20	18.5	93	20	18.1	91
CONTROL LIMIT FOR %REC	NDY			NDY			NDY		

NOTES: NDY = NOT DETERMINED YET

ANALYST

SUPERVISOR

Inge Ang 4/6/98
INGE ANG DATE

Russ Chin 4/6/98
RUSS CHIN DATE

REQUESTER: AHMED E. HEGAB SCL NO. 16920 - 16923
SAMPLE LOCATION: POWERLINE OIL COMPANY DATE REPORTED: 3/31/98
12345 LAKELAND ROAD
SANTA FE SPRING, CA 90670
METHOD(S): EPA 8260 VOLATILE ORGANIC COMPOUNDS BY GC/MS MODIFIED FOR TCLP

TCLP VOCs BY GC/MS

ANALYTE	SCL NO.		16920	16921	16922	16923	QUANTITATION LIMIT				
	COL. NO.	METHOD	POC-1-128A	POC-2-128A	POC-3-128A	POC-4-128A	METHOD BLANK	16920	16921	16922	16923
	MATRIX	WATER	TCLP EXTRACT	TCLP EXTRACT	TCLP EXTRACT	TCLP EXTRACT					
	UNIT	MG/L	MG/L	MG/L	MG/L	MG/L		MG/L	MG/L	MG/L	MG/L
BENZENE		ND	140	1.4	0.3	43	0.005	47.8	0.63	0.13	11.2
VINYL CHLORIDE		ND	ND	ND	ND	ND	0.005	47.8	0.63	0.13	11.2
CHLOROFORM		ND	ND	ND	ND	ND	0.005	47.8	0.63	0.13	11.2
2-BUTANONE (MEK)		ND	ND	ND	ND	ND	0.05	47.8	6.3	1.3	112
1,1-DICHLORO ETHANE		ND	ND	ND	ND	ND	0.005	47.8	0.63	0.13	11.2
1,1,1-TRICHLOROETHENE		ND	ND	ND	ND	ND	0.005	47.8	0.63	0.13	11.2
TETRACHLOROETHENE		ND	ND	ND	ND	ND	0.005	47.8	0.63	0.13	11.2
CHLOROBENZENE		ND	ND	ND	ND	ND	0.005	47.8	0.63	0.13	11.2
1,1-DICHLOROETHENE		ND	ND	ND	ND	ND	0.005	47.8	0.63	0.13	11.2
1,4-DICHLOROBENZENE		ND	ND	ND	ND	ND	0.005	47.8	0.63	0.13	11.2
CARBON TETRACHLORIDE		ND	ND	ND	ND	ND	0.005	47.8	0.63	0.13	11.2

TENTATIVELY IDENTIFIED COMPOUNDS:

SCL 16920,16923: ALIPH. HYDROCARBONS C5-C10, C13, ALKYL CYCLOPENTANES, ALKYL CYCLOHEXANES, ALKYL BENZENES, INDAN, METHYL & DIMETHYL INDANS, NAPHTHALENE, DECAHYDRO NAPHTHALENE, DECAHYDRO METHYL NAPHTHALENE, TETRAHYDRO-METHYL NAPHTHALENE.

SCL 16921: MTBE, ACETONE & ALKYL BENZENES.

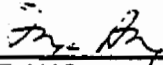
SCL 16922: MTBE, ALKYL BENZENES, INDAN, METHYL & DIMETHYL INDANS, NAPHTHALENE, TETRAHYDRO METHYL NAPHTHALENE.

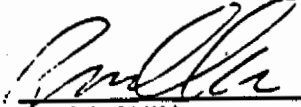
NOTES: ND = NOT DETECTED UG = MICROGRAM MG = MILLIGRAM
QUANTITATION LIMIT (QL) = (CONCENTRATION OF LOWEST CALIBRATION STANDARD) X (DILUTION FACTOR)

* = ANALYTE WAS QUANTITATED BELOW THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.
** = ANALYTE WAS QUANTITATED ABOVE THE ESTABLISHED LINEAR CALIBRATION RANGE. AMOUNT REPORTED IS AN ESTIMATE.

AI /ST

SUPERVISOR


INGE ANG 4/6/98
DATE


RUSS CHIN 4/6/98
DATE

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

15 N. SAN FERNANDO BLVD., SUITE 300
BANK, CA 91504



SPLIT SAMPLE RECEIPT

Received from representatives of the Department of Toxic Substances Control on 2/11/1998,
a requested sample split from samples acquired under the authority of Section 66272.1, Title 22,
California Code of Regulations.

The samples are numbered as follows:

- | | |
|-----------------------|-----------|
| 1. <u>POC-1-211 B</u> | 6. _____ |
| 2. <u>POC-2-211 B</u> | 7. _____ |
| 3. <u>POC-3-211 B</u> | 8. _____ |
| 4. _____ | 9. _____ |
| 5. _____ | 10. _____ |

Signatures:

James Cristan
Facility Representative (print and sign)

Alfred E. Hight
DTSC Representative (print and sign)

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

105 N. SAN FERNANDO BLVD., SUITE 300
BANK, CA 91504



SPLIT SAMPLE RECEIPT

Received from representatives of the Department of Toxic Substances Control on January 28, 1998
a requested sample split from samples acquired under the authority of Section 66272.1, Title 22,
California Code of Regulations.

The samples are numbered as follows:

1. POC-1-128 B
2. POC-2-128 B
3. POC-3-128 B
4. POC-4-128 B
5. POC-5-128 B

6. POC-6-128 B
7. POC-7-128 B
8. POC-8-128 B
9. POC-9-128 B
10. POC-10-128 B

Signatures:

June Christman
Facility Representative (print and sign)

June Christman

Abraham S. Hegler
DTSC Representative (print and sign)

ATTACHMENT 11

Summary of Violations

SUMMARY OF VIOLATIONS

On January 27-28, 1998, the Department of Toxic Substances Control, California Environmental Protection Agency, conducted an inspection at:

Facility name: Powerine Oil Company (POC).

Facility address: 12354 Lakeland Road, Santa Fe Spring, California 90245

EPA ID Number: CAD 008 383 291

County name: Los Angeles

As a result of that inspection, violations of hazardous waste laws, regulations, or requirements were discovered. Below are the list of these violations:

I. Illegal Storage.

Health and Safety Code (HSC) section 25201(a) and 25213(b).
POC stored in excess of 5000 gallons of hazardous waste (K050, F037 and F038) in tanks (#s 10006 and 27105) and failed to obtain from DTSC a hazardous Waste Storage Permit or other grant of authorization

2. Integrity Assessment

Title 22, Cal. Code Regs., section 66262.34 and 66265.191
POC failed to have on file a written integrity assessment reviewed by an Independent, qualified, professional engineer that attests that its hazardous waste tank system is adequately designed and has sufficient structural strength and compatibility with the waste(s) to be transferred, stored or treated to ensure that it will not collapse, rupture or fail. In fact, there is no documented report to indicate the integrity of tank # 10006 or tank # 27105

Authorized Company Representative* Authorized State Agent

I acknowledge receipt of this report only

Name: June Christman

Title: Manager - Environmental Engineering

Signature: *June Christman*

Date: 2-9-98

Name: Ahmed E. Hegab, Ph.D

Title: Haz. Sub. Scientist

Signature: *Ahmed E. Hegab / Ahmed E. Hegab*

Date: 2-9-98

SUMMARY OF VIOLATIONS

On January 27-28, 1998, the Department of Toxic Substances Control, California Environmental Protection Agency, conducted an inspection at:

Facility name: Powerine Oil Company.

Facility address: 12354 Lakeland Road, Santa Fe Spring, California 90245

EPA ID Number: CAD 008 383 291

County name: Los Angeles

As a result of that inspection, violations of hazardous waste laws, regulations, or requirements were discovered. Below are the list of these violations:

3) Illegal Disposal.

HSC section 25189 (c)

- POC Caused the disposal of hazardous waste to a point not authorized by DTSC
POC mixed sand with waste water treatment impoundment sludge F037 and tank bottom (K052) which is RCRA listed hazardous waste, generated
• from emptying tanks and shipped these waste as offsite road base feed stock.

4) Title 22 Section 66262.11

POC failed to determine if the waste generated by the facility is hazardous

Authorized Company Representative*

Authorized State Agent

I acknowledge receipt of this report. only

Name: *June Christman*

Name: Ahmed E. Hegab, Ph.D

Title: *Manager - Environmental Engineering*

Title: Haz. Sub. Scientist

Signature: *June Christman*

Signature: *Ahmed E. Hegab*

Date: *2-9-98*

Date: *2/9/98*

SUMMARY OF VIOLATIONS

On January 27-28, 1998, the Department of Toxic Substances Control, California Environmental Protection Agency, conducted an inspection at:

Facility name: Powerine Oil Company.

Facility address: 12354 Lakeland Road, Santa Fe Spring, California 90245

EPA ID Number: CAD 008 383 291

County name: Los Angeles

As a result of that inspection, violations of hazardous waste laws, regulations, or requirements were discovered. Below are the list of these violations:

5- No use of the manifests

Title 22, Cal. Code Regs. 66262.20(a)

- POC offered H.W. for offsite transfer, treatment, storage or disposal without manifests. The facility failed to use manifest for disposal from tank primary oil/water/solid separation sludge tanks (F037) and other listed K-waste and shipped as a recyclable materials.

6- Operations

Title 22, Cal. Code Regs., section 66262.34(a)(3) and possible 66265.31

POC failed to maintain and operate the facility in a manner that minimize the possibility of fire, explosion or any unplanned sudden or non-sudden release of hazardous waste constituents to air, soil which could threaten human health and environment.

Suspected asbestos, friable, stored on the ground, waste water, oily and asphalt on different section of facility's ground.

Authorized Company Representative*

Authorized State Agent

I acknowledge receipt of this report only.
Name: June Christman

Title: Manager - Env. Eng.

Signature: *June Christman*

Date: 2-9-98

Name: Ahmed E. Hegab, Ph.D

Title: Haz. Sub. Scientist

Signature: *Ahmed E. Hegab*

Date: 2/9/98

SUMMARY OF VIOLATIONS

On January 27-28, 1998, the Department of Toxic Substances Control, California Environmental Protection Agency, conducted an inspection at:

Facility name: Powerline Oil Company.

Facility address: 12354 Lakeland Road, Santa Fe Spring, California 90245

EPA ID Number: CAD 008 383 291

County name: Los Angeles

As a result of that inspection, violations of hazardous waste laws, regulations, or requirements were discovered. Below are the list of these violations:

7- Labelling

Title 22, Cal. Code Regs., Sections 66262.34(a)(2), (f)(1) and (f)(3)

POC failed to label tanks # 10006 and tank # 27105, 55-gallon drums filled with asbestos, 55-gallon drum filled with acid batteries and other containers filled with hazardous waste with

a- Date of accumulation began b- date 90-day storage period began

c- Composition and physical state (flammable, ... etc).

Authorized Company Representative*

I acknowledge receipt of this report only

Name: Jane Christman
Title: Manager - Env. Eng.
Signature: Jane Christman
Date: 2-9-98

Authorized State Agent

Name: Ahmed E. Hegab, Ph.D
Title: Haz. Sub. Scientist
Signature: Ahmed E. Hegab
Date: 2/9/98